Appendix F

NHDES Wetland Permit Application, July 10, 2015

Merrimack Valley Reliability Project

Pelham, Windham, Hudson & Londonderry, New Hampshire

PREPARED FOR

New England Power Company d/b/a National Grid
40 Sylvan Road
Waltham, Massachusetts, 02451
781.907.3648

&

Public Service Company of New Hampshire d/b/a Eversource Energy
13 Legends Drive
Hooksett, New Hampshire 03106
603.634.2906

PREPARED BY

2 Bedford Farms Drive Suite 200
Bedford, NH 03110
603.391.3900

July 2015

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Attachments

Wetlands Permit Application Forms

■

NHDES Standard Dredge and Fill Application Form

NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: http://des.nh.gov/onestop

RSA/Rule: Env-Wq 100-900

Administrative Use Only	*Administrative Use Only*	*Administrative Use Only*	File No.:
			Check No.:
			Amount:
			Initials:

1. REVIEW TIME:
Indicate your Review Time below. Refer to Guidance Document A for instructions.

☒ Standard Review (Minimum, Minor or Major Impact) ☐ Expedited Review (Minimum Impact only)

2. PROJECT LOCATION:
Separate applications must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: **Existing Electric Transmission Right-of-Way (ROW)**			TOWN/CITY: **Pelham**
TAX MAP: **N/A**	BLOCK: **N/A**	LOT: **N/A**	UNIT: **N/A**
USGS TOPO MAP WATERBODY NAME: ☒ NA		STREAM WATERSHED SIZE: ☒ NA	

LOCATION COORDINATES (If known): **Multiple locations along an existing electric transmission ROW in Pelham**
☐ Latitude/Longitude ☐ UTM ☐ State Plane

3. PROJECT DESCRIPTION:
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The Merrimack Valley Reliability Project (MVRP) involves the construction of a new overhead 345 kV electric transmission line within an existing electric transmission ROW between the New England Power d/b/a National Grid (NEP) owned Tewksbury 22A Substation in Tewksbury, Massachusetts and the Public Service Company of New Hampshire d/b/a Eversource Energy (PSNH) owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The portion of the MVRP located within New Hampshire that is the subject of this permit application is referred to herein as the "Project". The Project extends from the Massachusetts border in Pelham, New Hampshire to the PSNH-owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The Project proposes approximately 17.9 miles of new transmission line (which will be known as "3124 Line") within the Towns of Pelham, Windham, Hudson, and Londonderry as well as relocation of 7.6 miles of an existing NEP-owned 115 kV transmission line (known as "Y-151 line") within the Towns of Pelham, Windham, and Hudson.

The MVRP has been divided into four segments delineated by state, ownership, and line alignment. ***Segment 1 of MVRP (6.5 miles in length) is located in Massachusetts and is not discussed herein.*** Segment 2 is the portion of the Project in New Hampshire to be owned and operated by NEP. Segment 2 runs from the Massachusetts/New Hampshire continuing north within an existing NEP ROW for 8.1 miles through the Towns of Pelham, Windham and Hudson to a location in the town of Hudson where the project shifts from the existing NEP ROW to an existing PSNH ROW. Segments 3 and 4 account for the remaining 9.8 miles of the Project in the Towns of Hudson and Londonderry, New Hampshire to be owned and operated by PSNH.

To incorporate the new 3124 Line in the majority of Segment 2, the existing NEP-owned Y-151 line (overhead 115 kV transmission line) will need to be relocated within the western edge of the existing NEP ROW and the new 3124 Line will be installed in the original Y-151 alignment. In Segment 3, the new 3124 Line will be installed within the eastern edge of the existing PSNH ROW. In Segment 4, the new 3124 Line will be installed within the center of the existing PSNH ROW. ***Refer to the Attached Application Narrative, Figures and Appendices for more information.***

4. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC…

1. NHSEC Joint Application for a Certificate of Site and Facility;
2. NHDES Shoreland Permit Application (being submitted concurrently with this application);
3. NHDES 401 Water Quality Certification **(**being submitted concurrently with this application);
4. NHDES Alteration of Terrain Permit Application (being submitted concurrently with this application);
5. NHDES Wetlands Permits for Geotechnical Boring Work Associated with the MVRP **(#2015-01230; #2015-01231**);
6. NHDES Shoreland Permit By Notification for Geotechnical Boring Work Associated with the MVRP (**#2015-01272**).

5. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:
See the Instructions & Required Attachments document for instructions to complete a & b below**.**

a. Natural Heritage Bureau File ID: NHB **14**- **4809**.

b. ☐ Designated River the project is in ¼ miles of:_____; and
date a copy of the application was sent to Local River Advisory Committee: Month: __ Day: __ Year: ____
☒ NA

6. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: **Holden, Joshua**		
TRUST / COMPANY NAME: **New England Power Company (NEP)**	MAILING ADDRESS: **40 Sylvan Road, 3rd Floor, East Wing**	
TOWN/CITY: **Waltham**	STATE: **MA**	ZIP CODE: **02451-1120**
EMAIL or FAX: **joshua.holden@nationalgrid.com**	PHONE: **781-907-3648**	
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize DES to communicate all matters relative to this application electronically		

7. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.: **ROW consists of existing easements and fee ownerships**		
TRUST / COMPANY NAME:	MAILING ADDRESS:	
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

8. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: **Trefry, Sherrie L.**	COMPANY NAME: **Vanasse Hangen Brustlin, Inc.**	
MAILING ADDRESS: **2 Bedford Farms Drive, Suite 200**		
TOWN/CITY: **Bedford**	STATE: **NH**	ZIP CODE: **03110**
EMAIL or FAX: **strefry@vhb.com**	PHONE: **603-391-3900**	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

9. PROPERTY OWNER SIGNATURE:

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to be reviewed for the presence of historical/ archeological resources.
8. I authorize DES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of DES correspondence. DES will not forward returned mail.

Property Owner Signature	Print name legibly	Date
Joshua Holden for NSP	**Joshua Holden**	6 / 23 /2015

Pelham

MUNICIPAL SIGNATURES

10. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
⇨		

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. The Conservation Commission signature should be obtained **prior** to the submittal of the original application and four copies to the town/city clerk for mailing to the DES.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

11. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

Town/City Clerk Signature	Print name legibly	Town/City	Date
⇨ Dorothy A. Marsden	Dorothy A. MARSDEN	PELHAM	7/10/2015

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, sign and accept the applications **only** if the Conservation Commission signature has been received;
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

12. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		☐ ATF	4,209	☐ ATF
Scrub-shrub wetland	2,016	☐ ATF	82,170	☐ ATF
Emergent wetland	1,106	☐ ATF	38,035	☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	390 / 195 (Bed Impact)	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland	628	☐ ATF	35,622	☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	**3,750 /**		**160,426 / 195**	

13. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☐ Minimum Impact Fee: Flat fee of $ 200

☒ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking)	**164,176** sq. ft.	X	$0.20 =	$ **32,835.20**
Temporary (seasonal) docking structure:	sq. ft.	X	$1.00 =	$
Permanent docking structure:	sq. ft.	X	$2.00 =	$
Projects proposing shoreline structures (including docks) add $200 =				$
Total =				$ **32,835.20**
The Application Fee is the above calculated Total or $200, whichever is greater =				$ **32,835.20**

NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: http://des.nh.gov/onestop

RSA/Rule: Env-Wq 100-900

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date a copy of the application was sent to Local River Advisory Committee: Month: __ Day: __ Year: ____
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TOWN/CITY: **Waltham**	STATE: **MA**	ZIP CODE: **02451-1120**
EMAIL or FAX: **joshua.holden@nationalgrid.com**	PHONE: **781-907-3648**	
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6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
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11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of DES correspondence. DES will not forward returned mail.

Property Owner Signature	Print name legibly	Date
Joshua Holden for MEP	**Joshua Holden**	6 / 23 / 2015

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⇨	Print name legibly	Date

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⇨ Town/City Clerk Signature	Print name legibly	Town/City	Date
Nancy M Charland Deputy Town Clerk	Nancy Charland	Windham	7/10/15

DIRECTIONS FOR TOWN/CITY CLERK:

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12. IMPACT AREA:
For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact
Permanent: impacts that will remain after the project is complete.
Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland		☐ ATF		☐ ATF
Scrub-shrub wetland	250	☐ ATF	7,027	☐ ATF
Emergent wetland		☐ ATF		☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	**250 /**		**7,027/**	

13. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☐ Minimum Impact Fee: Flat fee of $ 200
☒ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) **7,277** sq. ft. X $0.20 = $ **1,455.40**

Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ **1,455.40**

The Application Fee is the above calculated Total or $200, whichever is greater = $ **1,455.40**

NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: http://des.nh.gov/onestop

RSA/Rule: Env-Wq 100-900

Administrative Use Only	*Administrative Use Only*	*Administrative Use Only*	File No.:
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Separate applications must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: **Existing Electric Transmission Right-of-Way (ROW)**			TOWN/CITY: **Hudson**
TAX MAP: **N/A**	BLOCK: **N/A**	LOT: **N/A**	UNIT: **N/A**
USGS TOPO MAP WATERBODY NAME: ☒ NA		STREAM WATERSHED SIZE: ☒ NA	

LOCATION COORDINATES (If known): **Multiple locations along an existing electric transmission ROW in Hudson**
☐ Latitude/Longitude ☐ UTM ☐ State Plane

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The MVRP has been divided into four segments delineated by state, ownership, and line alignment. ***Segment 1 of MVRP (6.5 miles in length) is located in Massachusetts and is not discussed herein.*** Segment 2 is the portion of the Project in New Hampshire to be owned and operated by NEP. Segment 2 runs from the Massachusetts/New Hampshire continuing north within an existing NEP ROW for 8.1 miles through the Towns of Pelham, Windham and Hudson to a location in the town of Hudson where the project shifts from the existing NEP ROW to an existing PSNH ROW. Segments 3 and 4 account for the remaining 9.8 miles of the Project in the Towns of Hudson and Londonderry to be owned and operated by PSNH.

To incorporate the new 3124 Line in the majority of Segment 2, the existing NEP-owned Y-151 line (overhead 115 kV transmission line) will need to be relocated within the western edge of the existing NEP ROW and the new 3124 Line will be installed in the original Y-151 alignment. In Segment 3, the new 3124 Line will be installed within the eastern edge of the existing PSNH ROW. In Segment 4, the new 3124 Line will be installed within the center of the existing PSNH ROW. ***Refer to the Attached Application Narrative, Figures and Appendices for more information.***

4. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC…

1. NHSEC Joint Application for a Certificate of Site and Facility;
2. NHDES Shoreland Permit Application (being submitted concurrently with this application);
3. NHDES 401 Water Quality Certification **(**being submitted concurrently with this application);
4. NHDES Alteration of Terrain Permit Application (being submitted concurrently with this application);
5. NHDES Wetlands Permits for Geotechnical Boring Work Associated with the MVRP (**#2015-01230; #2015-01231**);
6. NHDES Shoreland Permit By Notification for Geotechnical Boring Work Associated with the MVRP (**#2015-01272**).

5. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:
See the Instructions & Required Attachments document for instructions to complete a & b below**.**

a. Natural Heritage Bureau File ID: NHB **14**- **4809**.

b. ☐ Designated River the project is in ¼ miles of:_____; and
date a copy of the application was sent to Local River Advisory Committee: Month: __ Day: __ Year: ____
☒ NA

6. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: **Holden, Joshua (NEP); Games, Laura (PSNH)**		
TRUST / COMPANY NAME: **New England Power Company (NEP); Public Service of New Hampshire (PSNH)**	MAILING ADDRESS: **40 Sylvan Road, 3rd Floor, East Wing (NEP); 13 Legends Drive (PSNH)**	
TOWN/CITY: **Waltham (NEP); Hooksett (PSNH)**	STATE: **MA (NEP); NH (PSNH)**	ZIP CODE: **02451-1120(NEP); 03106 (PSNH)**
EMAIL or FAX: **joshua.holden@nationalgrid.com (NEP); laura.games@nu.com (PSNH)**	PHONE: **781-907-3648 (NEP); 603-634-2906 (PSNH)**	
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize DES to communicate all matters relative to this application electronically		

7. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.: **ROW consists of existing easements and fee ownerships**		
TRUST / COMPANY NAME:	MAILING ADDRESS:	
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

8. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: **Trefry, Sherrie L.**	COMPANY NAME: **Vanasse Hangen Brustlin, Inc.**	
MAILING ADDRESS: **2 Bedford Farms Drive, Suite 200**		
TOWN/CITY: **Bedford**	STATE: **NH**	ZIP CODE: **03110**
EMAIL or FAX: **strefry@vhb.com**	PHONE: **603-391-3900**	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

9. PROPERTY OWNER SIGNATURE:

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to be reviewed for the presence of historical/ archeological resources.
8. I authorize DES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of DES correspondence. DES will not forward returned mail.

Property Owner Signature	Print name legibly	Date
Laura V. Games for PSNH Joshua Holden for NEP	Laura V. Games Joshua Holden	6/23/15 6/23/15

Permit Application - Valid until 12/31/15 Page 3 of 5

MUNICIPAL SIGNATURES

10. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

⇨	Print name legibly	Date

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. The Conservation Commission signature should be obtained **prior** to the submittal of the original application and four copies to the town/city clerk for mailing to the DES.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

11. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

⇨ Town/City Clerk Signature	Print name legibly	Town/City	Date
Donna A McLaughlin Deputy	DONNA A MCLAUGHLIN	HUDSON	7-10-15

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, sign and accept the applications **only** if the Conservation Commission signature has been received;
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

12. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland	112	☐ ATF	4,944	☐ ATF
Scrub-shrub wetland	13	☐ ATF	21,817	☐ ATF
Emergent wetland		☐ ATF	4,013	☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	5,053 /	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	/	☐ ATF	/	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	**125 /**		**35,827/**	

13. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☐ Minimum Impact Fee: Flat fee of $ 200

☒ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) **35,952** sq. ft. X $0.20 = $ **7,190.40**

Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ **7,190.40**

The Application Fee is the above calculated Total or $200, whichever is greater = $ **7,190.40**

NHDES-W-06-012

WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau
Land Resources Management

Check the status of your application: http://des.nh.gov/onestop

RSA/Rule: Env-Wq 100-900

Administrative Use Only	*Administrative Use Only*	*Administrative Use Only*	File No.:
			Check No.:
			Amount:
			Initials:

1. REVIEW TIME:
Indicate your Review Time below. Refer to Guidance Document A for instructions.

☒ Standard Review (Minimum, Minor or Major Impact) ☐ Expedited Review (Minimum Impact only)

2. PROJECT LOCATION:
Separate applications must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: **Existing Electric Transmission Right-of-Way (ROW)**			TOWN/CITY: **Londonderry**
TAX MAP: **N/A**	BLOCK: **N/A**	LOT: **N/A**	UNIT: **N/A**
USGS TOPO MAP WATERBODY NAME: ☒ NA		STREAM WATERSHED SIZE: ☒ NA	

LOCATION COORDINATES (If known): **Multiple locations along an existing electric transmission ROW in Londonderry**
☐ Latitude/Longitude ☐ UTM ☐ State Plane

3. PROJECT DESCRIPTION:
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The Merrimack Valley Reliability Project (MVRP) involves the construction of a new overhead 345 kV electric transmission line within an existing electric transmission ROW between the New England Power d/b/a National Grid (NEP) owned Tewksbury 22A Substation in Tewksbury, Massachusetts and the Public Service Company of New Hampshire d/b/a Eversource Energy (PSNH) owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The portion of the MVRP located within New Hampshire that is the subject of this permit application is referred to herein as the "Project". The Project extends from the Massachusetts border in Pelham, New Hampshire to the PSNH-owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The Project proposes approximately 17.9 miles of new transmission line (which will be known as "3124 Line") within the towns of Pelham, Windham, Hudson, and Londonderry as well as relocation of 7.6 miles of an existing 115 kV NEP-owned transmission line (known as "Y-151 line") within the Towns of Pelham, Windham and Hudson.

The MVRP has been divided into four segments delineated by state, ownership, and line alignment. ***Segment 1 of MVRP (6.5 miles in length) is located in Massachusetts and is not discussed herein.*** Segment 2 is the portion of the Project in New Hampshire to be owned and operated by NEP. Segment 2 runs from the Massachusetts/New Hampshire continuing north within an existing NEP ROW for 8.1 miles through the Towns of Pelham, Windham and Hudson to a location in the town of Hudson where the project shifts from the existing NEP ROW to an existing PSNH ROW. Segments 3 and 4 account for the remaining 9.8 miles of the Project in the Towns of Hudson and Londonderry to be owned and operated by PSNH.

To incorporate the new 3124 Line in the majority of Segment 2, the existing NEP-owned Y-151 line (overhead 115 kV transmission line) will need to be relocated within the western edge of the existing NEP ROW and the new 3124 Line will be installed in the original Y-151 alignment. In Segment 3, the new 3124 Line will be installed within the eastern edge of the existing PSNH ROW. In Segment 4, the new 3124 Line will be installed within the center of the existing PSNH ROW. ***Refer to the Attached Application Narrative, Figures and Appendices for more information.***

4. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC…

1. NHSEC Joint Application for a Certificate of Site and Facility;
2. NHDES Shoreland Permit Application (being submitted concurrently with this application);
3. NHDES 401 Water Quality Certification **(**being submitted concurrently with this application);
4. NHDES Alteration of Terrain Permit Application (being submitted concurrently with this application);
5. NHDES Wetlands Permits for Geotechnical Boring Work Associated with the MVRP (**#2015-01230; #2015-01231**);
6. NHDES Shoreland Permit By Notification for Geotechnical Boring Work Associated with the MVRP (**#2015-01272**).

5. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:
See the Instructions & Required Attachments document for instructions to complete a & b below**.**

a. Natural Heritage Bureau File ID: NHB **14**- **4809**.

b. ☐ Designated River the project is in ¼ miles of:_____; and
date a copy of the application was sent to Local River Advisory Committee: Month: __ Day: __ Year: ____
☒ NA

6. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: **Games, Laura**		
TRUST / COMPANY NAME: **Public Service of New Hampshire (PSNH)**	MAILING ADDRESS: **13 Legends Drive**	
TOWN/CITY: **Hooksett**	STATE: **NH**	ZIP CODE: **03106**
EMAIL or FAX: **laura.games@nu.com**	PHONE: **603-634-2906**	
ELECTRONIC COMMUNICATION: By initialing here: _____, I hereby authorize DES to communicate all matters relative to this application electronically		

7. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.: **ROW consists of existing easements and fee ownerships**		
TRUST / COMPANY NAME:	MAILING ADDRESS:	
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL or FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

8. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: **Trefry, Sherrie L.**	COMPANY NAME: **Vanasse Hangen Brustlin, Inc.**	
MAILING ADDRESS: **2 Bedford Farms Drive, Suite 200**		
TOWN/CITY: **Bedford**	STATE: **NH**	ZIP CODE: **03110**
EMAIL or FAX: **strefry@vhb.com**	PHONE: **603-391-3900**	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize DES to communicate all matters relative to this application electronically		

9. PROPERTY OWNER SIGNATURE:

See the Instructions & Required Attachments document for clarification of the below statements

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to be reviewed for the presence of historical/ archeological resources.
8. I authorize DES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of DES correspondence. DES will not forward returned mail.

Property Owner Signature	Print name legibly	Date
Laura V. James for PSNH	Laura V. Games	6/23/15

MUNICIPAL SIGNATURES

10. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
⇨		

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. The Conservation Commission signature should be obtained **prior** to the submittal of the original application and four copies to the town/city clerk for mailing to the DES.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

11. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

Town/City Clerk Signature	Print name legibly	Town/City	Date
⇨ Sharon A Farrell	Sharon A Farrell	Londonderry	7.14.2015

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, sign and accept the applications **only** if the Conservation Commission signature has been received;
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

12. IMPACT AREA:
For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact
Permanent: impacts that will remain after the project is complete.
Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.		TEMPORARY Sq. Ft. / Lin. Ft.	
Forested wetland	13	☐ ATF	25,010	☐ ATF
Scrub-shrub wetland	132	☐ ATF	51,952	☐ ATF
Emergent wetland	158	☐ ATF	114,096	☐ ATF
Wet meadow		☐ ATF		☐ ATF
Intermittent stream		☐ ATF		☐ ATF
Perennial Stream / River	/	☐ ATF	/	☐ ATF
Lake / Pond	/	☐ ATF	/	☐ ATF
Bank - Intermittent stream	80 / 17 (Bed Impact)	☐ ATF	922 / 415 (Bed Impact)	☐ ATF
Bank - Perennial stream / River	/	☐ ATF	/	☐ ATF
Bank - Lake / Pond	/	☐ ATF	/	☐ ATF
Tidal water	/	☐ ATF	/	☐ ATF
Salt marsh		☐ ATF		☐ ATF
Sand dune		☐ ATF		☐ ATF
Prime wetland		☐ ATF		☐ ATF
Prime wetland buffer		☐ ATF		☐ ATF
Undeveloped Tidal Buffer Zone (TBZ)		☐ ATF		☐ ATF
Previously-developed upland in TBZ		☐ ATF		☐ ATF
Docking - Lake / Pond		☐ ATF		☐ ATF
Docking - River		☐ ATF		☐ ATF
Docking - Tidal Water		☐ ATF		☐ ATF
TOTAL	**383 / 17**		**191,980 / 415**	

13. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☐ Minimum Impact Fee: Flat fee of $ 200

☒ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) **192,363** sq. ft. X $0.20 = $ **38,472.60**

Temporary (seasonal) docking structure: _____ sq. ft. X $1.00 = $ _____

Permanent docking structure: _____ sq. ft. X $2.00 = $ _____

Projects proposing shoreline structures (including docks) add $200 = $ _____

Total = $ **38,472.60**

The Application Fee is the above calculated Total or $200, whichever is greater = $ **38,472.60**

USACE PGP – Appendix B
Secondary Impacts Checklist

US Army Corps of Engineers ®
New England District

New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X[1]	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X[2]	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org, specifically the book Natural Community Systems of New Hampshire.	X[3]	
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	X[4]	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)	X[5]	
2.5 The overall project site is more than 40 acres.		X
2.6 What is the size of the existing impervious surface area?	N/A	
2.7 What is the size of the proposed impervious surface area?	N/A	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	N/A	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)	X[6]	
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html.	X[7]	

3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the PGP, GC 21?	N/A	
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?	X[8]	
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?	X	
5. Historic/Archaeological Resources		
For a minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review**)** shall be sent to the NH Division of Historical Resources as required on Page 5 of the PGP**	X	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law..

1. The upper section of Beaver Brook in Derry and Londonderry is listed as impaired for aquatic life uses due to elevated chloride levels. Tonys Brook, located to the west of the Project ROW in Pelham is listed as impaired for both aquatic life and primary recreation uses. Lastly, Nesenkeag Brook, which intersects the Project ROW in Londonderry is listed as impaired for aquatic life uses due to previously observed low dissolved oxygen levels and low biotic index values derived from previous benthic macroinvertebrate assessments. The source(s) for the low dissolved oxygen levels and low biotic values are listed as unknown according to the New Hampshire Department of Environmental Services' (NHDES) 303(d) list. The target date for completing a Total Maximum Daily Load (TMDL) study is 2016.

2. There are a total of 13 perennial stream crossings and 20 intermittent stream crossings along the Project ROW in Pelham, Windham, Hudson and Londonderry. Refer to Section 6.0 of the NHDES Wetlands Permit Application Narrative for more information.

3. Vernal Pool habitat along Segments 3 and 4 of the Project ROW was identified and mapped by Normandeau in April of 2012 in support of a previous PSNH project. During September and October 2014, VHB Wetland Scientists reviewed all areas previously mapped as vernal pools by Normandeau as well as identified new areas along all three segments of the Project ROW which displayed characteristics indicating viable vernal pool habitat. VHB revisited all previously identified pools and areas previously noted as displaying potential habitat during the peak breeding season of the indicator amphibian species in late April 2015. A total of seventeen (17) vernal pools were identified along the Project ROW. No permanent or temporary fill will be placed within areas identified as vernal pools along the Project ROW. Approximately 31,791 (0.7 ac.) square feet of vegetative clearing is proposed within vernal pool boundaries and 332,335 (7.6 ac.) square feet within 250-foot buffers located along the Project ROW to construct the new 3124 Line. Refer to Sections 4.4 and 5.0 of the NHDES Wetlands Applications Narrative for more information.

4. The majority of wetland crossings proposed are temporary and will involve the use of construction swamp mats. Permanent crossings are proposed along existing ROW access roads at four wetland crossing locations. Permanent crossings are being designed as stone fords to maintain hydrology, sediment transport and wildlife passage.

5. Tree clearing associated with the Project ROW is proposed within 100-feet and 50-feet of perennial and intermittent stream channels, respectively. The amount of tree clearing within these riparian buffers was estimated using available GIS data and aerial imagery. Of the total 4.5 acres of tree clearing estimated to occur within the designated buffers of 22 streams, approximately 2.2 acres is associated with perennial streams and the remaining 2.3 acres of tree clearing is associated with intermittent streams. Refer to Section 6.0 and 7.2 of the NHDES Wetlands Permit Application Narrative for more information.

6. The New Hampshire Natural Heritage Bureau (NHNHB) was consulted regarding the occurrence of rare plant, animal or natural communities within vicinity of the proposed Project. NHNHB indicated historical records of rare plants, exemplary natural communities and invertebrate and vertebrate species in a response memo dated December 17, 2014. Invertebrate and vertebrate species identified by NHNHB, NHF&G and USFWS which intersect the Project ROW include the brook floater, northern black racer, Blanding's turtle, and spotted turtle. Other species noted in the NHNHB report within proximity to the Project ROW include the grasshopper sparrow, and wood turtle. Additionally, exemplary natural communities identified in the NHNHB report within proximity to the Project ROW include medium level fen system, and swamp white oak floodplain forest. NHNHB identified records of four plant species that intersect the Project ROW, with an additional six plant species identified nearby. Consultation with NHNHB, NHF&G and USFWS remains ongoing at this time. Refer to Section 9.0 of the NHDES Wetlands Permit Application Narrative for more information.

7. The Project ROW in Pelham, Windham and Londonderry intersects areas identified as "Highest Ranked Habitat in NH" and "Highest Ranked Habitat in Ecological Region". The Project ROW in Hudson does not intersect any of these areas.

8. According to Federal Emergency Management Agency (FEMA) National Flood Insurance Rate Maps (FIRM), produced for Hillsborough and Rockingham Counties, portions of the proposed Project ROW intersect the100-year floodplains of several named perennial streams. However, the proposed Project has been designed to avoid structure installation within 100-year floodplain boundaries to the maximum extent practicable. Only three structures proposed along the relocated Y-151 line in Pelham will be located within the 100-year floodplain of Golden Brook. Two structures proposed along the new 3124 line in Pelham will also be installed within the 100-year floodplain of Golden Brook, however two existing structures are to be removed, negating these impacts. Lastly, one structure along the new 3124 line in Londonderry will be installed within the 100-year floodplain of Beaver Brook located just south of the Scobie Pond Substation. The amount of new fill associated with installation of each new structure is negligible. Access to these structures will traverse temporary matting across wetland areas which will be removed upon completion of work in each area.

Review Criteria
Administrative Rule Env-Wt 302.04(a)

Review Criteria
Administrative Rule Env-Wt 302.04(a)

Documentation that the New Hampshire (NH) portion of the Merrimack Valley Reliability Project (MVRP), referred to herein as the "Project" complies with the requirements contained in Env-Wt 302.04(a) of the New Hampshire Code of Administrative Rules is provided below. The Project is being proposed by New England Power Company d/b/a National Grid (NEP) and Public Service Company of New Hampshire d/b/a Eversource Energy (PSNH) and involves approximately 17.9 miles of new 345 kV transmission line (which will be known as "3124 Line") within the Towns of Pelham, Windham, Hudson, and Londonderry and relocation of 7.6 miles of an existing overhead 115 kV transmission line (known as the "Y-151 line") in Pelham, Windham and Hudson.

(1) The need for the proposed impact.

The MVRP is part of a suite of projects identified in the Greater Boston Area Update Transmission Needs Assessment ('Updated Needs Assessment') published by Independent System Operator – New England, Inc. (ISO-NE) in 2014. The Updated Needs Assessment found that under certain contingencies, key elements of the transmission system in the Merrimack Valley would be overloaded or vulnerable to overloads. MVRP has been specifically designed to address reliability needs associated with the transmission lines connecting northeastern Massachusetts and southern New Hampshire by providing an additional 345 kV transmission path between the two states. This new transmission path will alleviate overloads of 345 kV and 115 kV transmission circuits terminating at New Hampshire substations. It will also address voltage issues in the southern New Hampshire area. In doing so, it ensures continued compliance with applicable federal and regional transmission system reliability standards and criteria, and maintains reliable electric service to New Hampshire and Massachusetts electric customers.

Refer to **Section 1.1** of the Application Narrative for more information.

(2) The alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

The Applicants considered a number of possible alternate means to connect the existing Tewksbury 22A Substation in Tewksbury, MA to the Scobie Pond 345 kV Substation in Londonderry, NH with a new 345 kV transmission line. As the terminal locations of the line are fixed, the Applicants performed an in-depth review of three alternative routes along existing infrastructure corridors during the selection process. The overhead portions for all of the overhead alternatives are located adjacent to existing lines utilizing the available ROW to

the greatest extent possible. As part of the routing analysis, the Applicants also considered the potential for an underground route along existing linear corridors (e.g., roadways, transmission line corridors). Underground construction was rejected due to: significantly higher costs; the potential for greater environmental impacts; the lack of underground land rights to bury transmission lines; safety concerns; and the likelihood of encountering large amounts of rock, some of which would have required blasting to be removed.

The preferred route, which has been selected and is the current route, is 24.4 miles in length, 17.9 miles of which are in New Hampshire. The first alternative (Western Alternative) would have been approximately 45.5 miles in length with approximately 18.3 miles in New Hampshire and would have required 88 acres of additional ROW (85 feet wide) to be purchased. The second alternative (Eastern Alternative) would have been approximately 58 miles in length with approximately 26.7 miles in New Hampshire and would also have required the expansion of the existing ROW for virtually the entire 26.7 mile length (286 acres) in New Hampshire.

Due to the significantly longer traverses and the need to acquire additional ROW for the Western and Eastern Alternatives, many more wetlands and surface water impacts were anticipated in order to construct a new 345 kV transmission line along these alternate routes. In addition, estimated costs of a longer transmission line combined with costs associated with additional property rights acquisition increase the cost differential between the two alternatives and the preferred route. Lastly, more and longer outages would be required to reconfigure circuits for construction of the alternatives in Massachusetts versus the preferred route.

The ISO New England Planning Advisory Committee (PAC) published the "Greater Boston Preferred Solution" in February 2015, which outlined a preferred suite of projects. MVRP is included in the solution because it is consistent with good utility practice and it will result in the fewest impacts to communities and resources in the region, while ensuring increased reliability and improvements to the system in the most cost-effective manner.

Refer to **Sections 3.2 and 3.3** of the Application Narrative for a discussion on specific avoidance and minimization methods reviewed and selected as part of the preferred route.

(3) The type and classification of the wetlands involved.

Project wetlands to be temporarily and permanently impacted are located along an existing electric utility ROW owned in fee or held as easement by NEP and PSNH. The ROW passes through residential, commercial and rural landscape environments and several abandoned sand and gravel pits. Wetlands to be impacted have common wetland characteristics typically associated with this ROW environment. A majority of these wetlands have been previously disturbed by fill and removal activities associated with previous construction of the existing transmission lines located within the ROW and/or residential and agricultural activities intersecting and surrounding the Project corridor. A number of invasive species, including purple loosestrife and glossy buckthorn, are present both within delineated wetland boundaries and in adjacent upland areas. Only common wetland and upland plant species

were observed along the Project area, however, an in depth Rare, Threatened, and Endangered (RTE) species survey will be conducted during the 2015 growing season. Survey results will be used to develop an appropriate avoidance and protection plan for sensitive plant species which may be located along the ROW within close proximity to proposed work areas (Refer to **Question 7** below).

Wetlands along Segment 2 of the Project ROW were delineated by VHB Wetland Scientists in April of 2014. Wetlands along Segments 3 and 4 of the Project ROW were previously delineated in the fall of 2012 by Normandeau Associates, Inc. (Normandeau) in support of a previous PSNH project. During September and October 2014, and April 2015, VHB Wetland Scientists reviewed and confirmed previously delineated wetland areas and extended boundaries as needed to include the entire Project area. VHB also delineated a number of wetlands, not previously delineated by Normandeau, that were outside the study area for the previous PSNH project. Wetlands and surface waters within the Project ROW have been classified following *Wetlands and Deepwater Habitats Classification* (Cowardin et al., 1979) and are listed in Table 1 below.

Table 1: Classifications of Wetlands and Surface Waters along the Project ROW

Wetlands and Deepwater Habitats Classification	Mapping Code
Palustrine, Forested, Broad-leaved Deciduous, Saturated	PFO1B
Palustrine, Forested, Broad-leaved Deciduous, Seasonally Flooded	PFO1C
Palustrine, Forested, Broad-leaved Deciduous, Seasonally Flooded/Saturated	PFO1E
Palustrine, Forested, Dead, Seasonally Flooded/Saturated	PFO5E
Palustrine, Forested, Dead, Intermittently Exposed	PFO5G
Palustrine, Scrub-shrub, Broad-leaved Deciduous, Temporarily Flooded	PSS1A
Palustrine, Scrub-shrub, Broad-leaved Deciduous, Saturated	PSS1B
Palustrine, Scrub-shrub, Broad-leaved Deciduous, Seasonally Flooded	PSS1C
Palustrine, Scrub-shrub, Broad-leaved Deciduous, Seasonally Flooded/Saturated	PSS1E
Palustrine, Emergent, Persistent, Temporarily Flooded	PEM1A
Palustrine, Emergent, Persistent, Seasonally Flooded	PEM1C
Palustrine, Emergent, Persistent, Seasonally Flooded/Saturated	PEM1E
Palustrine, Emergent, Persistent, Semi-permanently Flooded	PEM1F
Palustrine, Emergent, Persistent, Intermittently Exposed	PEM1G
Palustrine, Emergent, Persistent, Permanently Flooded	PEM1H
Palustrine, Aquatic Bed, Rooted Vascular, Intermittently Exposed	PAB3G
Palustrine, Aquatic Bed, Rooted Vascular, Permanently Flooded	PAB3H
Palustrine, Unconsolidated Bottom, Permanently Flooded	PUBH
Riverine, Lower Perennial, Streambed, Mud	R2SB5

Riverine, Lower Perennial, Unconsolidated Bottom, Cobble-Gravel	R2UB1
Riverine, Lower Perennial, Unconsolidated Bottom, Sand	R2UB2
Riverine, Lower Perennial, Unconsolidated Bottom, Cobble-Gravel	R2UB3
Riverine, Intermittent, Streambed, Cobble-Gravel	R4SB3
Riverine, Intermittent, Streambed, Sand	R4SB4
Riverine, Intermittent, Streambed, Mud	R4SB5
Riverine, Intermittent, Streambed, Organic	R4SB6

Refer to **Section 4.0** of the Application Narrative for a discussion of existing wetlands intersecting the Project ROW. Additionally, **Attachment B** contains a Wetland Impact Table that includes detailed information specific to each wetland to be impacted.

(4) The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.

The wetlands to be impacted by the Project vary from isolated pockets entirely within the existing Project ROW to larger complexes that weave inside and outside of the Project ROW for various lengths. A number of perennial and intermittent stream channels also intersect the Project ROW in Pelham, Windham, Hudson, and Londonderry. Wetlands border a majority of these stream channels which generally drain north to south eventually outletting into the Merrimack River, well outside the Project area. Most notably, Beaver Brook intersects the ROW twice, once at the Windham/Hudson town line and once in Londonderry just west of the Scobie Pond 345 kV Substation. Beaver Brook also comes within close proximity to the western limits of the Project ROW to south of Mammoth Road (Route 128) in Windham.

Refer to **Question 13** and **Sections 4.0** and **6.0** of the Application Narrative for more information.

(5) The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.

Wetlands and surface waters intersecting the Project ROW are not considered rare or unusual and were found to exhibit common plant species, including a number of invasive species, during wetland and surface water delineation field work conducted over the 2014 and 2015 growing season. Plant species observed are characteristic of the landscape typically associated with partially cleared and maintained electric transmission ROWs in New Hampshire. Many of these wetlands have been previously disturbed by fill and removal activities associated with previous construction of the existing transmission lines within the Project ROW and other adjacent land use activities.

A single wetland intersecting the Project ROW in Pelham, New Hampshire has been designated as “prime wetland” by the Town of Pelham under *RSA 482-A:15* and *NH Administrative Rules Env-Wt 700*. Individual municipalities in New Hampshire may elect to designate wetlands as “prime-wetlands” if, after thorough analysis, it is determined that the

wetland is of high-quality based on number of characteristics such as size, unspoiled character and ability to sustain populations of rare or threatened plant and animal species. The prime wetland, identified as "Lower Golden Brook" resembles a typical emergent wetland system commonly found within electric utility ROWs in New Hampshire where it intersects the Project area. The Project will result in the installation of two new utility structures and relocation of one utility structure within the wetland, however, permanent impacts are small relative to the size of this wetland. The Project will not alter the appearance or characteristics of the wetland at this location as it already contains electric utility structures and is crossed by overhead lines. Refer to **Section 5.1** of the Application Narrative for more information.

The New Hampshire Natural Heritage Bureau (NHNHB) was consulted regarding the occurrence of rare, threatened and endangered (RTE) plants and animals or exemplary natural communities within the vicinity of the Project. NHNHB indicated historical records of RTE species and exemplary natural communities occur in the Project vicinity in a response memo dated December 17, 2014, prompting additional consultation with the agency as well as New Hampshire Fish and Game (NHF&G) and the U.S. Fish and Wildlife Service (USFWS). Refer to **Question 7** below for further information on RTE species.

(6) The surface area of the wetlands that will be impacted.

Through careful project design impacts to wetlands have been minimized to the maximum extent practicable. Modifications to the design to avoid and minimize impacts included adjusting locations of new structures, accesways, and temporary access matting, as well as the size and locations of construction work pads, and pull pad sites. The Project design will result in approximately **4,428** total square feet (sq. ft.) (.10 acres) of unavoidable permanent impact to jurisdictional wetlands in the Towns of Pelham, Windham, Hudson and Londonderry. Permanent impacts result from the installation of new structures associated with construction of the new 3124 Line and relocation of the Y-151 line, as well as improvements to existing ROW accessways at four locations (three in Pelham and one in Windham) and grading associated with partial realignment of a single intermittent stream channel (identified as SA-41). Permanent wetland impacts associated with structure installation comprises a total of **405** sq. ft. of the permanent wetland impact. Permanent impacts associated with grading to complete the partial realignment of intermittent stream SA-41 comprises a total of **140** sq. ft. The majority of the permanent impacts (**3,883** sq. ft.) will result from accessway improvements which have been designed to maintain existing wetland hydrology and drainage patterns.

In addition to permanent wetland impacts, up to a total of **388,895** sq. ft. (8.93 acres) of temporary wetland impacts, associated with accessing and removing existing structures and accessing and installing new structures, will result from the Project. Temporary impacts are a result of the placement of matting within wetlands in order to access and remove existing structures, access and install new structures, and to set up pulling/tensioner and guard protection sites which will be staged along the Project ROW. Work pads comprised of matting allow room for construction equipment and work crews to access and work in wetland areas at structure locations. If some of the work within wetlands occurs during frozen or dry ground conditions, than the use of mats may not be necessary. A designated

Environmental Monitor acting on behalf of the Applicants will evaluate field conditions on a case by case basis during construction to determine if mats are necessary.

See **Table 2** below for proposed temporary and permanent impacts listed by town. Impacts are further described in **Section 5.0** of the Application Narrative and broken out by wetland in **Attachment B**.

Table 2: Proposed Temporary and Permanent Impacts by Town

Town	Proposed Temporary Impacts (sq. ft.)	Proposed Permanent Impacts (sq. ft.)
Pelham	160,036	3,750
Windham	7,027	250
Hudson	30,774	125
Londonderry	191,058	303
Total	**388,895**	**4,428**

Some tree clearing will be required within wetlands and along intermittent and perennial streams and their associated buffers intersecting the Project ROW in order to accommodate the new 3124 Line and relocated Y-151 line. Since the western edge of the NEP ROW has been nearly cleared to its full extent previously, clearing impacts along this edge will be limited to selective tree cutting and side trimming in order to obtain required line clearance standards. Tree clearing along the PSNH ROW will be more substantial. Portions of the eastern edge of the ROW in Hudson and Londonderry and portions of the middle of the ROW in Londonderry have not been cleared to the full extent of the existing ROW boundary. The proposed clearing is limited to a minor portion of the overall width of the existing cleared ROW. Refer to **Sections 5.2** and **7.2** of the Application Narrative for a detailed discussion of clearing proposed.

(7) The impact on plants, fish, and wildlife including: rare, special concern species; state and federally listed threatened and endangered species; species at the extremities of their ranges; migratory fish and wildlife; and exemplary natural communities identified by the New Hampshire natural heritage program.

Only common plant species were observed along the Project ROW during the course of wetland delineations by Vanasse Hangen Brustlin, Inc. (VHB) Wetland Scientists during the 2014 growing season. The NHNHB was consulted on December 12, 2014 regarding the occurrence of rare plant, animal or natural communities within vicinity of the Project. NHNHB indicated historical records of rare plants, exemplary natural communities and invertebrate and vertebrate species in a response memo dated December 17, 2014, prompting additional consultation with the agency as well as NHF&G and USFWS. Invertebrate and vertebrate species which intersect the Project ROW include the brook floater, northern black racer, Blanding's turtle, and spotted turtle. Other species noted in the within proximity to the Project ROW include the grasshopper sparrow and wood turtle. NHNHB identified records of four plant species that intersect the Project ROW, with an additional six plant species and two

exemplary natural communities identified nearby. Exemplary natural communities identified within proximity to the Project ROW include medium level fen system, and swamp white oak floodplain forest.

Invertebrate and Vertebrate Species

Each of the identified species were addressed during a meeting with NHF&G on February 17, 2015 (refer to **Attachment D**). Since there is no work proposed within the bed or along the banks of Beaver Brook, there will be no impacts to the brook floater and no additional survey or mitigating action is required for this species. Winter construction could result in adverse impacts to the northern black racer, if hibernacula occur in Project impact areas. In order to identify hibernacula of northern black racers along the Project ROW, surveys were conducted along the Project ROW by VHB with assistance from Mike Marchand of NHF&G in April and May of 2015 in accordance with protocols developed through consultation with NHF&G (dated May 22, 2015 and provided in **Attachment D**). VHB did not identify any individuals or hibernacula during this survey work. At this time, NHF&G recommends additional surveys for this species during the spring of 2016. To avoid and minimize impacts to Blanding's, spotted and wood turtles that may result during Project construction, Turtle nesting surveys will occur in specific areas along the Project ROW during late spring/early summer of 2015 in accordance with NHF&G approved field protocols. Should nests be found, they will be mapped, flagged and avoided during construction. Additionally, a training session will be held in the field with the Project contractor.

The New England cottontail has been added to the Project species list at the recommendation of NHF&G since it is listed as endangered in New Hampshire with known occurrences in Londonderry. Impacts to New England cottontail are not anticipated as the Project will not impact existing upland shrub habitat. Additionally, the Project will create new upland shrub habitat as a result of the clearing that is proposed. Field surveys will occur during the early part of the 2015 winter season to determine the presence of absence of this species within the Project ROW in accordance with NHF&G approved protocols.

Additionally, the USFWS has recently designated the northern long-eared bat as a threatened species under the Endangered Species Act 16 U.S.C. § 1531 et seq. (ESA) effective May 4, 2015. Since the Project is located within the range of this species and involves tree clearing, potential impacts to this species were considered. Approximately 71.2 acres of trees within the existing right of way need to be cleared to construct the Project. No known hibernacula or roost trees occur near the Project (John Reichard, USFWS pers comm.) The NHNHB also does not have any known occurrences of northern long-eared bat occurring near the Project. Coordination with the USFWS is ongoing at this time, however the Applicants expect to reach an agreement.

Plant Species

NHNHB identified records of four plant species that intersect the Project ROW, with an additional six plant species and two exemplary natural communities identified nearby. A formal plant and natural community survey is scheduled to be conducted during the 2015 growing season based on flowering times provided by NHNHB and in accordance with protocols outlined in the "MVRP Rare Plant Species Survey Memorandum," dated May 8,

2015, as approved by NHNHB (Refer to **Attachment D**). Surveys will identify and map current locations and extent of the listed species within the Project ROW in order to avoid impacts to the species during construction to the greatest extent feasible.

The Project was also reviewed for the presence of federally-listed or proposed, threatened or endangered species, designated critical habitat or other natural resources of concern through the USFWS's Information Planning and Conservation (IPaC) System. A result letter dated May 15, 2015 indicated no listed species or critical habitats are located within the Project area.

Refer to **Section 9.0** of the Application Narrative for more information and **Attachment D** for NHNHB, USFWS, and NHF&G correspondence.

Exemplary Natural Communities

Exemplary natural communities identified within proximity to the Project ROW include a medium level fen system and a swamp white oak floodplain forest. The medium level fen system is co-located with a pond that occurs northwest of the terminus of the Project at the Scobie Pond 345 kV Substation. The swamp white oak floodplain forest is associated with Beaver Brook located west of the Project ROW in Pelham. The Project does not require impacts to either natural community identified. In addition, field surveys that occurred in 2014 and 2015 did not identify any exemplary natural communities within the Project ROW.

Wildlife Habitat

Wildlife habitat is provided by the forested, scrub-shrub, emergent and open water components of the Project ROW's wetland complexes. However, forested components of the Project ROW where the majority of the Project impacts would occur are not significantly different in their general habitat characteristics relative to adjacent forested uplands. Forested habitat is also ubiquitous within the Project vicinity. Therefore, the modest amount of forested habitat conversion along the length of Project area will not significantly affect the existing wildlife habitat conditions.

The Project ROW includes wildlife habitat identified as "Highest Ranked Habitat in New Hampshire", "Highest Ranked Habitat in Biological Region", and "Supporting Landscapes" as identified by the NHF&G in the *Wildlife Action Plan*. A map series depicting these habitat types in relation to the Project ROW is included as **Figure 4**. The Project is not expected to affect or change the ranking of habitat. The Project has been sited within an existing maintained utility corridor that contains multiple transmission lines. Under the current assignment of habitat ranking, the existing cleared utility corridor is not distinguished from the surrounding landscape types. Therefore, additional clearing and construction of a new transmission line should not have an impact on ranking of wildlife habitat.

The most valuable wildlife habitat functions are provided by the emergent marsh/aquatic bed/open water habitat components of several large wetlands within the Project ROW. These wetlands provide habitat that may be used by waterfowl and wading birds, a habitat type that is less common within the Project vicinity. Impacts to this habitat component of the wetlands

by the Project are limited. The majority of these systems have been avoided and will not be crossed during Project construction.

Fish and Shellfish

Fish and shellfish habitat is limited to the perennial streams within the Project area, including Golden Brook, Beaver Brook, Chase Stream, Nesenkeag Brook, and several unnamed perennial tributaries to Beaver Brook. These perennial streams have the potential to provide cold-water fishery habitat. The open water components of the streams formed by beaver activity may provide warm water fish habitat. However, the small size of the open water area is not likely to support a significant population of fish. The perennial streams or the open water habitat will not be permanently impacted by the Project. Therefore, no impacts to fish, shellfish, or supporting habitats is expected to result from the Project.

Vernal Pools

Vernal pool habitat along the PSNH ROW was identified and mapped by Normandeau in April of 2012 in support of a previous PSNH project. During September and October of 2014, VHB Wetland Scientists reviewed areas previously mapped as vernal pools by Normandeau as well as identified new areas along the Project ROW which displayed characteristics indicating viable vernal pool habitat. VHB revisited previously identified pools and areas displaying potential habitat during the peak breeding season of the vernal pool indicator species in late April of 2015. A total of 17 vernal pools were identified along the Project ROW. No direct impacts are proposed to the documented breeding habitat of any of the vernal pools. However, varying levels of vegetative clearing associated with Project construction will occur within the 250-foot buffer of 16 out of the 17 identified vernal pools. Vegetative clearing is also proposed within the boundaries of 11 vernal pools.

Refer to **Section 5.2** and **Attachment H** for more information regarding vernal pools within the Project ROW.

(8) The impact of the proposed project on public commerce, navigation and recreation.

MVRP will impact public commerce by increasing the reliability of the power supply in the region, providing an increase to the local and State tax base, and by creating job opportunities during the construction phase of the Project. MVRP is needed to support the reliable delivery of electric power to meet the region's current and future economic demand.

Direct negative impacts on public navigation resulting from the Project are not anticipated. Public Utility Commission License Applications will be filed to request licenses to construct new overhead lines across State lands and public waterways including Beaver Brook. In addition, New Hampshire Department of Transportation (NHDOT) applications will be filed to request permits to construct new overhead lines across State roadways and railbed. Driveway permit applications and traffic management plans will be filed to request permission from the NHDOT to access the Project ROW from State roads during construction. In coordination with landowners, locked gates will be maintained or placed at various locations along the ROW to restrict access.

The Project ROW traverses 11 parcels designated as conservation land in Pelham, one designated parcel in Windham, three designated parcels in Hudson, and five designated parcels in Londonderry. The majority of the parcels are municipally owned with a small fraction being held under private ownership. Some of these conservation parcels provide a network of hiking trails and other recreational opportunities to the public which intersect portions of the Project ROW. The Musquash Swamp Conservation Area located in Londonderry is the largest parcel that borders the Project ROW, accounting for 545 acres. A segment of the Granite State Rail Trail (aka Londonderry Bike Path) also crosses the Project ROW in Londonderry as the ROW approaches the Scobie Pond 345 kV Substation. The Project will not negatively impact recreational uses of these conservation lands. The proposed structures and access are located within the limits of the existing ROW outside of existing accessways.

Given the scope and location of the Project (within the limits of an existing electric utility ROW), the Project will not result in any unreasonably adverse impacts to existing community resources pertaining to access or recreational opportunities. Access or recreational opportunities may be temporarily restricted during Project construction periods, but will be restored upon Project completion.

(9) The extent to which a project interferes with the aesthetic interests of the general public.

NEP and PSNH retained Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C. (EDR) to conduct a Visual Impact Assessment (VIA) for the Project. A two-mile corridor centered on the center line of the proposed 3124 Line was defined as the visual study area. The study area totaled approximately 77 square miles, and included portions of the Towns of Pelham, Windham, Hudson, Londonderry, Litchfield and Derry. Within this area EDR described existing landscape character, viewer groups, and scenic resources. Potential Project visibility and visual impact were evaluated through viewshed analysis, field review, preparation of visual simulations, and evaluation of visual contrast by a panel of registered landscape architects.

The visual setting of the Project is an existing, well-established transmission corridor. Land use adjacent to the transmission corridor, and within the visual study area, is dominated by suburban residential development and remnant forest land. Farms and agricultural land within the study area occur primarily in the western portion of Londonderry, with two smaller agricultural areas occurring in the northern and southern portions of Pelham. Higher density residential and commercial development is concentrated in the village/downtown areas of Derry, Londonderry, and Pelham. Review of existing data bases revealed that there are no National or State Parks, National Forests, National Heritage Areas, National Wildlife Refuges or State Wildlife Management Areas, National Natural Landmarks, or National/State Designated Wild, Scenic or Recreational Rivers, or other sites that would be typically considered scenic resources of statewide or national significance within the visual study area. An inventory of potentially scenic public resources within the study area identified one state forest, four scenic byways/drives, 18 town-designated scenic areas, four recreational trails, numerous local parks and conservation areas, four golf courses, and a number of surface water resources. It should be noted that while compiling the inventory, resources were

identified as “potentially scenic” rather than “scenic,” because they may actually lack scenic qualities or public access.

Based on the results of the VIA, EDR concluded that:

- The Project will have very limited visibility from most locations within the visual study area (including the majority of scenic resources);
- Scenic resources located beyond 500 feet, or at most 0.5 mile, from the proposed center line will generally not have views of the Project;
- Open views from scenic resources will generally present limited contrast with the existing landscape and will have minimal impact on scenic quality and viewer expectations, due to the location of the Project within an existing transmission corridor;
- Even where presenting appreciable visual contrast, the Project would not be a dominant feature of a landscape in which existing human development is not already a prominent feature;
- The Project would not offend the sensibilities of a reasonable person or violate a clear written community standard intended to preserve scenic resources; and
- The Project Sponsors have committed to feasible and appropriate impact avoidance, minimization, and mitigation measures in the design of the facility that improve the harmony of the Project with its surroundings.

Based on these determinations, EDR concluded that the Project will not have an unreasonable adverse effect on aesthetics.

(10) The extent to which a project interferes with or obstructs public rights of passage or access.

As previously mentioned, the Project will be located within the limits of an existing electric utility ROW that is currently utilized for the transmission of high voltage electricity with limited access to the general public. Currently, locked gates are present at various locations along existing ROW accessways adjacent to public roadways.

Several networks of recreational trails associated with municipally and privately owned conservation land intersect the Project ROW in the Towns of Pelham, Windham, Hudson and Londonderry. Additionally, the Granite State Rail Trail crosses the Project ROW in Londonderry. The Project will not permanently interfere or obstruct public access to these community resources. During Project construction, it is anticipated that temporary restrictions to some of these resources which are located directly under the Project ROW will be required when work crews reach those locations. Any accessway that becomes temporarily restricted during Project construction will be restored upon completion of construction in the restricted area.

The Project will have a nominal impact to the traveling public. Impacts will be isolated to roadways where the proposed utility lines will cross public highways, streets and sidewalks. The impacts will occur during the construction phase of the Project and will be mitigated

through temporary traffic controls to maintain traffic mobility through the work zones. Traffic controls for this Project will be in accordance with the 2009 edition of the *Manual on Uniform Traffic Control Devices* (MUTCD)[1] and NHDOT policies.

When construction is taking place adjacent to public highways, streets and sidewalks, police or flaggers will temporarily slow or divert traffic down to one lane. Traffic will be temporarily stopped while overhead lines are spanned across the roadway. Necessary permits from NHDOT will be obtained prior to Project construction.

(11) The impact upon abutting owners pursuant to RSA 482-A:11, II.

The Project work will occur within the limits of an existing electric utility ROW owned in fee or held as easement by NEP and PSNH. Due to the nature of the Project (entirely within the limits of an existing electric utility ROW), this Project is exempt from abutter notification in accordance with New Hampshire Department of Environmental Services (NHDES) Rule *Env-Wt. 501.01(c)*. However as a courtesy, NEP and PSNH has sent notifications to landowners and abutters along the Project ROW. Town tax maps identifying the Project corridor and associated abutters have been provided in **Attachment F**.

For purposes of this permit application, the MVRP has been divided into four segments. The four segments are delineated by state, line ownership, and line alignment. ***Segment 1 of MVRP (6.5 miles in length) is located in Massachusetts and is not discussed herein.***

Segment 2 includes that portion of the Project ROW to be owned and operated by NEP that runs from the Massachusetts/New Hampshire border continuing north for 8.1 miles through the Towns of Pelham, Windham and Hudson to a location in the Town of Hudson where the Project transitions to an existing PSNH ROW which runs parallel to the NEP ROW. Segment 2 is already occupied by three existing transmission lines (two overhead 230 kV transmission line and one overhead 115 kV transmission line) for a majority (7.6 miles) of the length. In most locations, the ROW is currently cleared to nearly its full extent. To incorporate the new 3124 Line in the majority of Segment 2, the Y-151 line (existing overhead 115 kV transmission line owned by NEP) will need to be relocated within the western edge of the existing NEP ROW and the new 3124 Line will be installed in the original Y-151 alignment. Some clearing will be required along the western edge of the ROW to accommodate the relocated Y-151 line, but it will be confined to isolated areas and primarily will consist of selective tree cutting and side trimming.

Segment 3 includes that portion of the Project ROW where ownership and operation of the new 3124 Line transitions from NEP to PSNH, beginning north of Griffin Road in Hudson and running northwesterly within the existing PSNH ROW for approximately 3.9 miles. For this distance, the NEP ROW runs parallel to the PSNH ROW. The PSNH ROW in Segment 3 contains one existing 345 kV overhead 345 kV transmission line and the parallel NEP ROW contains two 230 kV lines and one 450 kV DC line. Approximately 90 feet of forested land

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[1] *Manual on Uniform Traffic Control Devices* (MUTCD), published by Federal Highway Administration (FHWA), 2009 Edition.

along the eastern edge of the ROW will need to be cleared to accommodate the new 3124 Line.

Segment 4, utilizes that portion of the PSNH ROW that diverges from the NEP ROW. It extends 5.9 miles northeasterly towards PSNH's Scobie Pond 345 kV Substation located on Brewster Road in Londonderry. The ROW in this Segment contains up to five existing overhead transmission lines; at some locations, the ROW also contains a distribution circuit. The number and arrangement of the existing facilities within the ROW varies over its total length. The ROW varies in width and is cleared except for an approximately 50-foot strip of forested land within the middle of the ROW. This forested strip will need to be cleared to accommodate the new 3124 Line.

The Project is not expected to result in direct adverse impacts to project abutters. Indirect (visual) impacts to abutters will vary along the Project ROW depending on the location and extent of clearing proposed as described above. Relocation of the Y-151 line along Segment 2 will result in some minor widening of the existing cleared ROW and is not expected to change the character of the current view.

Some visual impacts to abutters will occur along portions of Segment 3 as a result of tree clearing along the 90-foot wide un-cleared eastern edge of the Project ROW. In some locations, residential homes are located within close proximity to the proposed clearing. However, the Project is occurring on an existing, well established ROW with compromised scenic quality which minimizes its impact on viewer activities, perceived land use, and aesthetic expectations at these locations.

Tree clearing along Segment 4 will be confined to the center of the Project ROW which is surrounded by cleared ROW on both sides and is of significant distance (several hundred feet) from adjacent residential homes. Clearing along this Segment will result in a shift from an interspersion of shrubland and trees to an expansive open area.

Aesthetic impacts were addressed in detail through a VIA which was completed by EDR as previously summarized in **Question 9** above.

(12) The benefit of a project to the health, safety, and well-being of the general public.

The MVRP will improve the health, safety and well-being of the general public, by enhancing the reliability of electrical transmission services to the Merrimack Valley Region. The MVRP will eliminate potential overloads on several components of the current transmission system that could be experienced under certain contingency conditions. The MVRP will provide resiliency and increased system flexibility to the region's transmission infrastructure in order to deliver reliable electric service to customers in the area. In doing so, the MVRP will ensure continued compliance with applicable federal and regional transmission system reliability standards.

(13) The impact of a proposed project on quantity or quality of surface and ground water.

The Project is located within the boundaries of the Merrimack River Watershed. There are a total of 13 perennial stream crossings and 20 intermittent stream crossings along the Project ROW in Pelham, Windham, Hudson, and Londonderry. In addition, the Project ROW is largely comprised of densely vegetated scrub-shrub and emergent wetland systems. Refer to **Sections 4.0 and 6.0** of the Application Narrative for a description of these resources.

The Project is not expected to impact the quantity or quality of surface and ground water. The Project involves primarily temporary impacts associated with the use of matting during Project construction and a relatively small amount of permanent wetland impact proposed from the installation of new utility structures, improvements to existing ROW accessways at four locations, and grading associated with the partial realignment of a single intermittent stream channel (approximately **4,428** sq. ft.). The Project has been designed to avoid structure installation within wetlands to the maximum extent practicable. No structures are proposed within the banks or beds of any surface water located along the Project ROW and no culverts will be used to enclose streams. Of the 13 perennial stream crossings located along the Project ROW, three may be spanned with mats (resulting in no disturbance) during Project construction where historic ROW accessways exist and have since been flooded due to beaver activity. One other perennial stream may be crossed where an established ROW accessways and culvert exists. Of the 20 intermittent stream crossings located along the Project ROW, four may be crossed during project construction where established accessways and culverts exist, while five may be spanned with mats (resulting in no disturbance) at locations where historic ROW accessways once existed. Project construction may result in a total of **6,365** sq. ft. of temporary bed impacts to streams located along the Project ROW as a result of the placement of construction work pads or pull pads over channels located within close proximity to proposed structure installations or where mat spans are not feasible (significant linear distances). Refer to **Section 7.0** of the Application Narrative for further details on temporary stream impacts.

In order to accommodate the installation of proposed 3-pole Structure 253 along the 3124 Line in Londonderry, the Project will involve realignment of the western portion of a single intermittent stream channel, identified as SA-41 on Sheet 87 of the Wetland Permitting Plans (A**ttachment A**). The proposed channel realignment ("the Site") is located within the PSNH ROW approximately 1,200 feet east of High Range Road. Channel realignment is necessary at this location, as it has been determined by project engineers that the stream could interfere with the central support footing and/or the designated guy anchors of proposed Structure 253, thus compromising its long-term stability. The proposed location of Structure 253 cannot be moved as its location represents a critical turning point in the ROW where the 3124 Line changes direction to the south. Based on several site visits, hydrologic and hydraulic modeling, and estimated run-off calculations performed by VHB, the Project proposes to realign the western end of the channel to the north around the center pole of Structure 253. Realignment of the SA-41 will result in approximately **80** sq. ft., and **17** linear feet of permanent stream bed impact. Upon completion of the channel realignment and installation of structure 253, temporary erosion control blankets will be installed along the channel and

around the structure in order to allow for vegetation to become established. Refer to **Section 7.1** and the Channel Realignment Plan included in **Attachment A** for more information.

Permanent improvements to ROW accessways at four wetland crossing are proposed, but do not intersect a stream channel. Stone fords have been designed at these crossings. Stone fords allow for vegetation to grow between the stone and allow water to seasonally flow over the stone maintaining existing wetland hydrology and allowing for wildlife passage. Refer to **Attachment A** for Stone Ford Standard Design Typical.

The principal water quality concern associated with the Project relates to the potential for increased sediment erosion and movement during the construction period. As discussed in **Sections 3.0 and 12.0** of the Application Narrative, various Best Management Practices (BMPs) will be used during the construction period to minimize the erosion potential and sediment migration from the Project area. No new impervious surfaces or petroleum liquid storage facilities are proposed as part of the Project. The Project requires 401 Water Quality Certification because the Project will have temporary and permanent wetland impacts that will require authorization from the US Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act. The Project qualifies for a NH Statewide Programmatic General Permit (PGP), and it is assumed that the project would be authorized by NHDES under the general Water Quality Certificate #2012-404P-002 for PGP activities. A 401 Water Quality Certificate Application has been compiled and submitted to NHDES for the Project.

The Project will require approximately **71.2 acres** of upland and wetland tree clearing in New Hampshire, of which **10.9** acres are located within wetlands. Some clearing will also occur within the riparian buffers of perennial and intermittent stream channels. As indirect measure of the potential impact that the Project may have on streams, the amount of tree clearing within 100-feet and 50-feet of a perennial and intermittent stream channel, respectively, was estimated using available GIS data and aerial imagery. Of the total **4.5** acres of tree clearing along riparian buffers estimated to occur within the designated buffers of 22 streams in New Hampshire, approximately **2.2** acres is associated with perennial streams and the remaining **2.3** acres of tree clearing is associated with intermittent streams. Although the Project will require tree clearing in close proximity to many of the streams intersected by or adjacent to the Project ROW, the proposed clearing will be limited to only a minor portion of the overall width of the existing ROW, which is already cleared. Given that much of the existing ROW width is already cleared, the added clearing is not expected to result in any discernable effect on water quality or water temperatures in the intermittent or perennial streams. Refer to **Section 7.2** for a detailed description of clearing within riparian stream buffers by Project Segment.

Since the Project ROW is largely comprised of densely vegetated wetlands, the capacity of this environment to perform water quality and hydrologic functions such as groundwater discharge or recharge, flood flow alteration, sediment/toxicant/ pathogen retention, and nutrient removal exists. The large PEM/PSS wetland systems and/or wetlands containing open water or aquatic bed components located along the Project ROW may contribute to floodflow alteration by detaining surface runoff from surrounding slopes during precipitation events and excess floodwaters if they contain a contributing perennial or intermittent

watercourse. Pollutant retention or removal functions may also occur within these types of wetlands along the Project ROW, but a general lack of erosion, sediment, pollution, or excess nutrient sources within the drainage area limits water quality functions. The small amount of permanent impact proposed by the Project will not adversely impact water quality and hydrologic functions performed by the wetlands found within the Project ROW.

(14) The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.

Portions of the Project intersect the 100-year floodplains of several named perennial streams according to Federal Emergency Management Agency (FEMA) National Flood Insurance Rate Maps (FIRM), produced for Hillsborough and Rockingham Counties (Refer to **Figure 3**). However, the Project has been designed to avoid structure installation within 100-year floodplain boundaries to the maximum extent practicable. A total of six structures are proposed within a 100-year floodplain. Three structures along the relocated Y-151 line and two structures along the new 3124 Line are proposed within the 100-year floodplain of Golden Brook in Pelham. Two existing structures are to be removed from the floodplain for a net gain of three structures. Also, one structure along the new 3124 Line will be installed within the 100-year floodplain of Beaver Brook in Londonderry located just south of the Scobie Pond 345 kV Substation. The amount of new fill associated with installation of each new structure is minimal and access to these structures will traverse temporary matting across wetland areas. Therefore, the Project does not have the potential to cause or increase flooding.

Appropriate temporary sediment and erosion controls will be installed as depicted on the Wetland Permitting Plans, **Attachment A**, to minimize the potential of the Project to cause or increase erosion and sedimentation during construction. In addition, permanent access has been designed with appropriate BMPs to manage stormwater following construction completion. Examples of BMPs include roadside ditches, level spreaders, stone check dams, and water bars. As discussed in more detail in **Section 12.0**, various BMPs will be used during the construction period to minimize the erosion potential and sediment migration from the Project area.

(15) The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.

This criterion typically applies to projects involving shoreline alterations of which none are being proposed. Installation of the proposed 3124 Line and relocation of existing Y-151 line will not redirect current or wave energy because there is no work being proposed within large open bodies of water or flowing streams.

(16) The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights.

This Project serves the public, including the local landowners, and is, therefore, not directly comparable to an individual land-owner's desire to fill wetlands for private use. Additionally, it is difficult to predict further development or alterations of abutting properties and their current relationship to the subject wetlands beyond the boundaries delineated in relation to the Project (i.e., Project ROW). However, permanent wetland impacts associated with this Project have been limited to the greatest extent practicable. Proposed structure locations in wetlands are necessary in order to maintain the structural integrity of the proposed 3124 Line and relocated Y-151 line. Permanent wetland crossings are necessary in order to provide safe and reliable travel for work crews conducting future maintenance and repair within the ROW. Based on the small amount of permanent impact proposed (**4,428** sq. ft.), the Project would not significantly contribute to any future cumulative impacts.

(17) The impact of the proposed project on the values and functions of the total wetland or wetland complex.

Some of the larger wetland complexes found within the Project ROW, including Lower Golden Brook Prime Wetland, Beaver Brook Floodplain wetland, and other large emergent/scrub-shrub systems associated with open water components offer riparian storage of meltwater, floodwater, and stormwater. Due to their vegetative structure, with dense, erect emergent and scrub-shrub vegetation, these wetlands are important for trapping sediments and nutrients within the system, for reducing flow velocities, and for erosion control. These wetlands may also play a role in groundwater discharge or recharge dependent upon soil composition, landscape position, and their proximity to underlying aquifers. In addition, these wetlands may provide productive wildlife habitat (especially for invertebrates), and may be valuable in production export functions related to the ability of the wetland to provide food sources to wildlife. Therefore, these larger wetland complexes likely support wildlife in greater capacity than other systems that are isolated, smaller in size, and/or contain a less diverse structure of wetland classes and interspersion of vegetation. Due to their relationship with perennial streams and waterbodies, they may also contribute to valuable fisheries habitat and recreational opportunities such as canoeing and kayaking, although recreational opportunities would be limited to areas outside of the Project ROW.
The majority of the other Project ROW wetlands are currently maintained as either scrub-shrub or emergent habitat. Scrub-shrub wetlands in general have functions similar to forested wetlands. When associated with a stream, they often receive over bank flooding and are significant in flood alteration and often protect stream banks from erosion. Scrub-shrub wetlands are very productive in terms of food resources where they support berried varieties of shrubs. These wetlands tend to be more structurally diverse, and therefore tend to support more diverse wildlife species than forested wetlands. This is especially true because they are commonly associated with streams that can act as wildlife corridors or that offer a wider range of local habitat conditions. However, when not associated with a stream, hydrologically isolated and small in size, these wetlands tend to exhibit limited functions and values.

None of the Project impacts are expected to alter the hydrology of wetlands (i.e., no inflow/outflow restrictions) along the Project ROW. Therefore, the Project will not permanently impact water quality and hydrologic functions (groundwater recharge/discharge, floodflow alteration, or sediment and nutrient trapping) which are performed by these

wetlands, specifically the larger emergent/scrub-shrub complexes which are present. Some temporary impacts to the wildlife habitat value of Project ROW wetlands are anticipated during the construction period as a result of noise and the presence of work crews and equipment, but these impacts will be short-term.

Tree clearing is proposed along certain portions of each of the three segments of the Project ROW in New Hampshire which will result in the conversion of forested wetland cover types to scrub-shrub/emergent cover types. It is expected that some of this tree clearing will alter wildlife habitat. However, the forested communities where clearing impacts will occur are not significantly different in their general habitat characteristics relative to adjacent forested uplands. The most valuable wildlife habitat functions of the Project ROW wetlands are provided by the emergent-open water wetland classes currently present within the interior of the Project ROW. These wetland classes will not be impacted by clearing activities.

See **Section 4.3** of the Application Narrative for greater detail.

(18) The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.

There would be no impact to Registered Landmarks as none are located on or within the vicinity of the Project. The closest Registered Landmark is Spruce Hole Bog located over 24-miles to the northeast.

(19) The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.

There are no national rivers, national wilderness areas, national lakeshores, or intertidal waters within the Project corridor. There are also no New Hampshire State Parks within the Project corridor.

Beaver Brook (classified as a fourth order stream) is on the NHDES Consolidated List of Waterbodies subject to the Shoreland Water Quality Protection Act (SWQPA) *RSA 483-B*. Beaver Brook and its associated Protected Shoreland Zone intersect the Project ROW in two locations; once in Pelham and once at the Windham/Hudson town line. Beaver Brook does intersect the Project ROW a third time to the south of the Scobie Pond 345 kV Substation in Londonderry. In this location, it is classified as a 2nd order stream and, therefore, is not subject to SWQPA jurisdiction. A Shoreland Permit Application has been prepared and submitted to NHDES Shoreland Program to address proposed impacts within the protected shoreland of Beaver Brook (Refer to **Section 13.0** of the Application Narrative).

(20) The degree to which a project redirects water from one watershed to another.

No alterations of surface waters or drainage patterns are proposed. Therefore, no water will be redirected from one watershed to another as a result of the Project.

Application Narrative

- Introduction
- Site Description and Existing Conditions
- Proposed Project Description
- Project Wetlands and Vernal Pools
- Proposed Wetland and Vernal Pool Impacts
- Surface Waters & Drainage Patterns
- Proposed Stream Impacts
- Floodplains and Floodways
- Rare, Threatened, and Endangered Species
- Cultural Resources
- Alternatives Analysis
- Mitigation Measures
- Shoreland Water Quality Protection Act

Application Narrative

The NH portion of the proposed MVRP will be reviewed by the NH Site Evaluation Committee (NHSEC) under NH RSA 162-H, relative to energy facility siting because the Project involves construction of a new electric transmission line that exceeds 200kV. In preparation of filing an application with the NHSEC, Vanasse Hangen Brustlin, Inc. (VHB) is submitting a Standard Dredge and Fill Permit Application on behalf of NEP and PSNH in accordance with New Hampshire Revised Statutes Annotated (RSA) Chapter 482-A, Fill and Dredge in Wetlands, and Wetland Bureau Code of Administrative Rules, Chapters Env-Wt 100 through Env-Wt 900.

Proposed permanent wetland impacts total **4,428** sq. ft. from the installation of new electric transmission utility structures and associated guy anchors and proposed improvements to existing ROW accessways in four locations. Temporary wetland impacts totaling up to **388,895** sq. ft. may result from the use of matting to access structure locations and to create a stable work platform surrounding each structure. Proposed permanent stream impacts total **80** sq. ft. (17 linear feet) from the partial realignment of an intermittent stream channel and associated grading. Temporary stream impacts totaling up to **6,365** sq. ft. (610 linear feet) may result from accessing and installing new poles and guy wires. The Project is classified as a Major Project under NHDES Wetland Rules (Env-Wt 303.02) because total wetland impacts exceed 20,000 sq. ft.

The Application Narrative describes current site conditions (including adjacent regulated wetland resources), the proposed electric utility work and subsequent impacts to jurisdictional wetlands and streams. Attachments include: Wetland Permitting Plans showing existing conditions and the proposed construction activities, evidence of agency coordination, and representative site photographs. Additionally, demonstration that the Project complies with the provisions contained in the NHDES Wetland Rules is documented in further detail within this narrative.

1.0 Introduction

The MVRP involves the construction of a new overhead 345 kV electric transmission line within an existing ROW between the NEP-owned Tewksbury 22A Substation in Tewksbury, Massachusetts and the PSNH-owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The NH portion of the MVRP (Project) is the subject of this permit application. The Project extends from the Massachusetts border in Pelham, New Hampshire to the PSNH-owned Scobie Pond 345 kV Substation in Londonderry, New Hampshire. The Project proposes approximately 17.9 miles of new 345 kV transmission line (which will be known as "3124 Line") within the Towns of Pelham, Windham, Hudson, and Londonderry as well as

relocation of 7.6 miles an existing NEP-owned 115 kV transmission line (known as "Y-151 line").

For purposes of discussion, the MVRP has been divided into four segments (Refer to **Figure 1**). The four segments are delineated by state, line ownership, and line alignment. ***Segment 1 of MVRP (6.5 miles in length) is located in Massachusetts and is not discussed herein.*** Segment 2 is the portion of the Project in New Hampshire to be owned and operated by NEP. Segments 3 and 4 are the portions of the Project in New Hampshire to be owned and operated by PSNH.

1.1 Project Purpose and Need

The MVRP has been designed to address reliability needs associated with the transmission lines connecting northeastern Massachusetts and southern New Hampshire. The NEP and PSNH transmission systems are integral parts of the regional power system delivering electricity to customers throughout New England. The Companies must maintain their respective systems consistent with the reliability standards and criteria developed by the North American Electric Reliability Corporation (NERC), the Northeast Power Coordinating Council (NPCC) and ISO-NE, as well as their own reliability standards and criteria. These standards and criteria expressly require the Applicants to design their systems to withstand representative contingencies under stressed conditions (e.g., summer peak or minimum load levels, generator unavailability). If the area transmission system does not have the capacity to reliably serve forecasted load under these conditions, the Companies must plan and implement system additions and upgrades to address the identified performance issues.

In 2008, transmission system planners from ISO-NE, Northeast Utilities, National Grid, and NSTAR formed a Working Group to assess transmission system reliability in northeastern Massachusetts and southern New Hampshire, to identify needs within the study area, and to develop back-stop transmission solutions to address any identified needs. Results of the Updated Needs Assessment, published by ISO-NE in 2014, found that under certain contingencies, key elements of the transmission system in the Merrimack Valley would be overloaded or vulnerable to overloads. It found that at times of peak load, the 115 kV, 230 kV and 345 kV transmission paths between New Hampshire and Massachusetts would overload under certain contingencies, as would some connecting 115 kV and 230 kV lines in both states. The Updated Needs Assessment also found the potential for unacceptably high voltages at certain area substations under minimum load or off-peak contingency conditions. Thus, the existing transmission system does not have sufficient capacity to reliably serve southern New Hampshire and northeastern Massachusetts either at peak or off-peak load under reasonably stressed conditions.

A separate study focusing on New Hampshire and Vermont also identified potential overloads on 345 kV transmission lines between New Hampshire and Massachusetts. ISO-NE's "New Hampshire/Vermont Transmission System 2023 Needs Assessment Report" ('New Hampshire/Vermont Needs Assessment') documented potential thermal violations on the 326 345 kV line between PSNH's Scobie Pond 345 kV Substation in Londonderry, NH and

NEP's Sandy Pond Substation in Ayer, MA, as well as on the 394 345 kV line between New Hampshire Transmission's Seabrook Station in Seabrook, NH and NEP's Ward Hill Substation in Haverhill, MA. This report also found that several 345 kV buses in southern New Hampshire could have unacceptably high voltages under certain contingencies during light load conditions with minimal generation on line.

The Project addresses all of these needs by providing an additional 345 kV transmission path between Massachusetts and New Hampshire. This new transmission path will alleviate overloads of 345 kV and 115 kV transmission circuits terminating at New Hampshire substations. It will also address voltage issues in the southern New Hampshire area. In doing so, it ensures continued compliance with applicable federal and regional transmission system reliability standards and criteria and maintains reliable electric service to New Hampshire and Massachusetts electric customers.

The Updated Needs Assessment and the New Hampshire/Vermont Needs Assessment both focused on the ability of the existing transmission system to reliably serve regional electric customers. The Project has been designed to address the specific needs identified in these reports, and not to support the delivery of new generation into the region.

2.0 Site Description and Existing Conditions

Existing conditions along the Project ROW are discussed herein by segment in New Hampshire.

Segment 2 (NEP)

Segment 2 includes that portion of the Project that runs from the Massachusetts/ New Hampshire border continuing north within an existing NEP ROW for 8.1 miles through the Towns of Pelham, Windham and Hudson to a location in the Town of Hudson where the Project shifts from the existing NEP ROW to an existing PSNH ROW. Segment 2 is occupied by three existing transmission lines (two overhead 230 kV transmission line and one overhead 115 kV transmission line) for a majority (7.6 miles) of the length of the NEP-owned ROW.

The ROW width along Segment 2 varies from 350 to 566.5 feet wide. In most locations, the ROW is currently cleared to nearly its full extent. Segment 2 is typical of an existing utility ROW, with both upland and wetland areas maintained in accordance with National Grid's Vegetation Management Plan. Wetlands within the ROW generally consist of scrub-shrub and emergent vegetative cover types, with a relatively small area of forested wetlands along un-cleared borders of the ROW boundary. Golden Brook, Beaver Brook, three other unnamed perennial streams and nine intermittent streams intersect the Project ROW along Segment 2. In addition to the ROW crossing, Beaver Brook also comes within close proximity to the western edge of the Project ROW in one location in Windham. Additionally, the Project ROW crosses Golden Brook Prime Wetland and is adjacent to (west of) Little Island Pond

Prime Wetland. The NHNHB has identified records of four threatened or endangered plant species, two threatened or endangered vertebrate species, and one endangered invertebrate species intersecting Segment 2.

Land use adjacent to Segment 2 consists of predominantly residential areas, as well as forested areas, wetlands, and open fields. The ROW crosses four state maintained highways (Route 38, Route 111A, Route 128 & Route 111) and multiple local roadways.

Segment 3 (PSNH)

Segment 3 includes that portion of the Project where ownership of the new 3124 Line transitions from NEP to PSNH, beginning north of Griffin Road in Hudson and running northwesterly within the existing PSNH ROW for approximately 3.9 miles. For this distance, the NEP ROW runs parallel to the PSNH ROW. In some locations, the NEP ROW will be utilized to gain construction access to the PSNH ROW. The PSNH ROW in Segment 3 is approximately 220 feet wide and contains one existing 345 kV overhead transmission line.

Approximately 130 feet of the 220-foot wide ROW has been cleared and is maintained for the existing 345 kV transmission line. The active portion of the ROW consists of maintained scrub-shrub upland communities with scrub-shrub and emergent wetlands scattered throughout. PSNH conducts vegetation maintenance along Segment 3 in accordance with *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire*. Several forested wetlands exist within the un-cleared eastern edge of the ROW.

The ROW intersects Howard Brook, Chase Brook, Nesenkeag Brook and two other unnamed perennial streams as well as five intermittent streams. Additionally, several large emergent wetland systems are present along this segment. The NHNHB has identified records of one endangered vertebrate species in Londonderry at the transition from Segment 3 to Segment 4. Land use surrounding the ROW consists of predominantly residential areas with some forested and agricultural areas interspersed throughout. The ROW crosses one state maintained highway (NH Route 102) and multiple local roadways.

Segment 4 (PSNH)

Segment 4, utilizes that portion of the PSNH ROW that diverges from the NEP ROW. It extends 5.9 miles northeasterly towards PSNH's Scobie Pond 345 kV Substation located at 6 Brewster Road in Londonderry, New Hampshire. The ROW in this Segment contains up to five existing overhead transmission lines and, in some locations, additional overhead distribution circuits. The number and arrangement of the existing facilities within the ROW varies over its total length. The ROW varies in width from 460 feet to 635 feet and is cleared except for an approximately 50-foot strip of forested land running down the center of the ROW.

The ROW intersects one unnamed perennial stream and Beaver Brook (classified as 2nd order in this Segment), and six intermittent streams that are tributaries to either Nesenkeag Brook or

Beaver Brook, as well as several large emergent wetland systems. The NHNHB has identified records of two threatened or endangered vertebrate species intersecting this segment of the ROW.

Land use adjacent to this Segment of the ROW consists of predominantly residential areas, as well as forested areas and wetlands. The ROW crosses Interstate 93, two other state maintained highways (Route 28 and Route 128) and multiple local roadways.

3.0 Proposed Project Description

The Project involves construction of a new overhead 345 kV transmission line, which will be known as the 3124 Line, and will be located within an existing electric transmission ROW that connects NEP's Tewksbury 22A Substation in Tewksbury, Massachusetts to PSNH's Scobie Pond 345 kV Substation in Londonderry, New Hampshire. For purposes of this filing, the Project is defined as beginning at the Massachusetts/New Hampshire border and continuing to Scobie Pond 345 kV Substation. The 3124 Line is approximately 17.9 miles in length in New Hampshire and will be located in the Towns of Pelham, Windham, Hudson, and Londonderry. NEP will own 8.1 miles of the new line in Pelham, Windham, and Hudson (Segment 2). PSNH will own 9.8 miles of the new line in Hudson and Londonderry (Segments 3 and 4).

To incorporate the new 3124 Line in the majority of Segment 2, the existing NEP-owned Y-151 line (overhead 115 kV transmission line) will need to be relocated within the western edge of the existing NEP ROW and the new 3124 Line will be installed in the original Y-151 alignment. In Segment 3, the new 3124 Line will be installed within the eastern edge of the existing PSNH ROW. In Segment 4, the new 3124 Line will be installed within the center of the existing PSNH ROW. The following describes the Project in greater detail broken out by segment.

Segment 2 (NEP)

Segment 2 of the Project extends from the Massachusetts/New Hampshire border for 8.1 miles to a location in the Town of Hudson where the Project transitions from NEP to PSNH ownership (Refer to Sheets 30 to 64 of **Attachment A**). The new 3124 Line will be installed within an existing NEP-owned ROW located within the Towns of Pelham, Windham, and Hudson.

Currently, 7.6 miles of this Segment contains three existing overhead transmission lines designated as the O-215, Y-151 and N-214, respectively from west to east. The proposed new configuration for this section of Segment 2 from west to east is: Y-151, O-215, 3124, and N-214. To incorporate the new 3124 Line, a series of 115 kV delta davit arm structures will be erected approximately 28.5 feet from the western edge of the ROW. Once completed, the Y-151 line would be relocated onto this new alignment. The existing Y-151 assets will then be removed from the ROW, creating space for a series of new 345 kV steel H-Frame structures

intended to support the new 3124 Line. The new 3124 Line will be located on the centerline of the existing ROW, approximately 91.5 feet to the east of the existing O-215 line and approximately 91.5 feet to the west of the existing N-214 line. At a point north of Bockes Road in Hudson, the Y-151 line diverges from the Project ROW and relocation of this line is no longer part of the Project. The new 3124 Line will maintain its alignment within the center of the ROW, between the O-215 and N-214 lines, for the remaining 0.6 miles of Segment 2 until the Project transitions to PSNH ownership.

Currently, 173 new structures associated with the new 3124 Line and relocated Y-151 line are proposed in this Segment. Depending on the structure type, structures will be either direct embedded or constructed on a caisson foundation. The average height of the 3124 Line structures is approximately 80 feet above grade. The average height of the relocated Y-151 line structures is approximately 75 feet above grade.

In addition to structure installation and relocation, improvements to existing ROW accessways are proposed at four separate wetland crossings in order to provide a safe and stable means of travel for work crews during construction of the project and for future maintenance and repair activities.

Segment 3 (PSNH*)*

Segment 3 of the Project is 3.9 miles long and spans from the point of ownership transition in Hudson to a point in Londonderry where the new 3124 Line will change direction (Refer to Sheets 64 to 79 of **Attachment A**). The 3124 Line will be installed within the un-cleared eastern edge of an existing PSNH ROW.

As noted previously, there is one existing overhead 345 kV transmission line that currently occupies this portion of the ROW along this entire Segment. The new 3124 Line will run parallel to this existing transmission line. In some locations along this Segment, the adjacent NEP ROW will be utilized to gain construction access to the PSNH ROW. The Project design for this Segment consists of 37 new 345 kV steel H-frame structures. Structures will be either direct embedded or constructed on a caisson foundation. The average structure height of the 3124 Line structures is approximately 90 feet above grade. No permanent wetland crossings for accessways are currently proposed along this Segment.

Segment 4 (PSNH)

Segment 4 of the Project begins from the point that the PSNH ROW diverges from running parallel with the NEP ROW and continues to PSNH's Scobie Pond 345 kV Substation (Refer to Sheets 79 to 102 of **Attachment A**). This Segment of the Project is 5.9 miles long and located entirely within the Town of Londonderry. In this Segment, the new 3124 Line will be installed down the center of the existing ROW which has not been previously cleared.

As noted previously, this Segment contains several existing overhead transmission lines and, in some locations, additional overhead distribution circuits. No reconfiguration of the existing transmission or distribution lines is required in this Segment. The Project design for

this Segment consists of 51 new 345 kV steel H-frame structures. Structures will be either direct embedded or constructed on a caisson foundation. The average structure height of the 3124 Line structures is approximately 90 feet above grade. No permanent wetland crossings for accessways are currently proposed along this Segment.

3.2 Proposed Access to ROW

Proposed accessways to and within the existing Project ROW were selected over the course of several field visits by VHB, project engineers and construction and forestry personnel. To minimize the impact to private property, access points to the Project ROW originate from public roadways which run parallel to or perpendicularly intersect the ROW in various locations along the 17.9-mile corridor. Access points and exact accessways within the limits of the Project ROW were designed to avoid and minimize wetland and stream crossings to the maximum extent practical. As described in **Section 3.3** below, wooden swamp mats may be used at unavoidable wetland and stream crossings depending on field conditions (frozen/dry) and surrounding new structure installations that are within or in close proximity to wetlands and/or streams.

Of the 13 perennial stream crossings located along the Project ROW, three may be spanned with mats during project construction where historic ROW accessways exist and have since been flooded due to beaver activity. One other perennial stream may be crossed where an established ROW accessway and culvert exists. Of the 20 intermittent stream crossings located along the Project ROW, four may be crossed during Project construction where established accessways and culverts exist, while five may be spanned with mats at locations where historic ROW accessways once existed. Significant perennial streams including Beaver Brook (where it is designated 4th order), Chase Brook and Golden Brook will not be crossed during Project construction.

Beaver dams which are found along the Project ROW will be assessed in the field prior to Project construction to determine the level of obstruction and impact to ROW access. Existing dams may need to be breached to lower water levels during Project construction. Additionally, if the contractor determines that the dam is permanently obstructing an accessway that is vital to maintenance and repair or emergency outage activities or if the dam threatens the stability of existing or proposed structures, the NHDES Water Division will be contacted for approval to remove the dam.

Permanent improvements to existing ROW accessways will be required at four wetland crossing locations to provide a safe and stable travel way during Project construction and for future maintenance and repair activities. Stone fords will be installed at these crossings. Stone fords allow for vegetation to grow between the stone and allow water to seasonally flow over the stone maintaining existing wetland hydrology and allowing for wildlife passage. Refer to **Attachment A** for Stone Ford Standard Design Typical.

3.3 Proposed Construction Methods

Tree clearing in select locations along the Project ROW will occur prior to the mobilization of utility construction crews. Tree clearing impacts will be minimized within Project wetlands to the extent practicable to accommodate new structures and standard safety clearances. Tree clearing is proposed at the following locations (as shown on the Wetland Permitting Plans included as **Attachment A**):

- **Segment 2** – Clearing is required along select portions of the western edge of the existing NEP-owned ROW in order to accommodate the relocated Y-151 line.
- **Segment 3** – Clearing is required along the approximately 90-foot wide un-cleared eastern edge of the PSNH-owned ROW to accommodate the new 3124 Line.
- **Segment 4** – Clearing is required along the approximately 50-foot wide section of forested land down the center of the existing PSNH-owned ROW to accommodate the new 3124 Line.

Upon completion of clearing activities and prior to accessing the Project ROW with construction equipment, crews will install erosion and sediment control barriers in accordance with NHDES, NHDRED, and NEP and/or PSNH guidance manuals and as dictated by site conditions. Selected BMPs may include straw wattles, silt fence, wood chip/compost berms/tubes and/or other approved BMPs.

Ground-based crews will approach each new structure location along the proposed 3124 Line and relocated Y-151 line utilizing the proposed access as indicated on the Wetland Permitting Plans (**Attachment A**). Construction timber mats, also called swamp mats, typically with dimensions of 16 feet wide by 4 feet long, will be used as necessary in areas where wetlands will be crossed to gain access to each structure location, depending on seasonal ground conditions. Smaller perennial or intermittent stream channels located along the Project ROW that cannot be avoided may be spanned (from beyond its jurisdictional banks) using mats.

Construction work pads (100’x100’) comprised of temporary matting will be centered on each new structure or removal location proposed within wetland areas to accommodate necessary equipment. Additionally, larger pulling/tensioning platforms (100’x300’) will be staged at various locations along the Project ROW to accommodate conductor reel trailers, tensioner machines, and bucket trucks during the stringing of overhead transmission lines onto newly installed structures. Matting will be used where pulling/tensioner sites intersect wetland boundaries. Finally, guard protection areas (50’x50’) will be staged at road crossings and at other locations where smaller existing electrical distribution lines intersect the Project ROW to eliminate the possibility of the new transmission lines from falling onto existing roads or electrical lines when work crews are stringing the new lines. Matting will be used, depending on seasonal ground conditions, at locations where guard protection areas intersect wetland boundaries.

Once access is gained to each new structure location, poles will be installed either through direct embedment or constructed on a caisson foundation. Traditional auguring and installation procedures will be used. No structures are proposed to be installed within the bed and/or banks of any stream or river along the Project ROW. Additionally, no structures are proposed to be installed within areas identified as vernal pools. Contingent upon permit approval, work is proposed to commence in December of 2016.

Construction laydown areas used to store structure and line components and equipment will be located in upland areas outside the boundaries of Project ROW wetlands. During Project construction, control of the spread of invasive species that are currently found within the ROW will be managed in accordance with NHDES, NEP, and PSNH guidance manuals. Refer to **Section 12.3** for further details on invasive species present within the Project ROW and specific management methods proposed.

Matting and other construction debris will be removed upon completion of the proposed work. Stabilization of the surrounding Project area and restoration of disturbed areas will be completed as soon as possible. It is anticipated that minimal restoration will be needed and that natural re-colonization of wetlands within the Project will occur during the next vegetative growth period. VHB will revisit the ROW during this time period to assure restoration.

Refer to **Attachment A** for the location of existing wetlands and surface waters and utility structures, proposed new structure and removal locations, proposed accessways, proposed pulling/tensioning sites, guard protection areas, construction work pads and laydown areas, and temporary wetland and stream crossings.

3.4 Property Ownership and Abutters

Project work will occur within the limits of an existing electric utility ROW that is either owned in fee or maintained as an easement by NEP or PSNH. Due to the nature of the Project (within the limits of an existing utility ROW), this Project is exempt from abutter notification in accordance with NHDES Rule Env-Wt. 501.01(c). However as a courtesy, NEP and PSNH has sent notifications to landowners and abutters along the Project ROW. Town tax maps depicting the Project ROW and associated abutters, as well as a list identifying parcels intersecting the Project corridor have been provided as **Attachment F**.

4.0 Project Wetlands and Vernal Pools

The following section provides a summary of the wetland delineation methodology used as well as a general description of wetlands identified along the Project ROW.

4.1 Wetlands Delineation and Assessment

Wetlands along Segment 2 of the Project ROW were delineated by VHB Wetland Scientists in April of 2014. Wetlands along Segments 3 and 4 of the Project ROW were previously delineated in the fall of 2012 by Normandeau in support of a previous PSNH project. During September and October 2014, and April 2015, VHB Wetland Scientists reviewed and confirmed previously delineated wetland areas and extended boundaries as needed to include the entire Project area. VHB also delineated a number of wetlands, not previously delineated by Normandeau, that were outside the study area for the previous PSNH project. Wetlands were delineated using alpha-numerically coded pink flagging tape.

Wetland delineations were performed in accordance with the *Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (January 2012). The *Corps of Engineers Wetland Delineation Manual* presents a three parameter approach involving indicators of hydrophytic vegetation, hydric soils, and hydrology. The Regional Supplement presents wetland indicators, delineation guidance and other information that is specific to the Northcentral and Northeast region of the United States.

The *Northcentral-Northeast 2014 Regional Wetland Plant List* published by the U.S. Army Corps of Engineers, the *Field Indicators of Hydric Soils in the United States, Version 7.0* published by the Natural Resources Conservation Service ("NRCS"), and the *Field Indicators for Identifying Hydric Soils in New England, Version 3* published by the New England Interstate Water Pollution Control Commission were also used as technical references during the wetland field investigations. Soils were evaluated using a Dutch style auger. Wetlands were classified following the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979, revised 1985.) Functions and values were assessed using the *Highway Methodology Workbook Supplement* (USACE, 1999).

4.2 Wetlands Description

A general description of Project wetlands, including key resources such as prime wetlands, floodplain wetlands, large emergent/scrub-shrub complexes, and wetlands containing open water habitat, are described below by Project ROW Segment. Greater details specific to each wetland resource to be impacted including Cowardin Classification, functions and values and other wetland characteristics are listed in the Wetland Impact Table included in **Attachment B**. Additionally, photographs of each wetland resource can be found in **Attachment C** and USACE Function-Value Evaluation Forms are included as **Attachment G**, respectively.

Segment 2

The regional topography of Segment 2 is characterized by a rolling landscape with areas of shallow and exposed bedrock. One area of active agricultural land intersects Segment 2 to the south of Tallant Road in Pelham. North of Tallant Road, several abandoned sand and gravel pits exist along the Project ROW.

Lower Golden Brook Prime Wetland - Wetland WA 46

Wetland WA 46 is a named wetland, known as Lower Golden Brook Prime Wetland (as designated by the Town of Pelham) and intersects the Project ROW between Bridge Street (Route 38) and Windham Road (Route 111A) in Pelham. Wetland WA 46 is a large wetland complex comprised of multiple wetland classification cover types including PEM1H, PUBH, and PSS1E. The wetland contains Golden Brook, a 3rd order perennial stream classified as R2UB. Wetland WA 46 and associated Golden Brook drain from north to south across the Project ROW. The wetland is associated with the FEMA 100-year floodplain of Golden Brook and is recognized as a seasonally flooding cattail marsh natural community by the NHNHB.

The vegetation is generally dominated by emergent plant species including broadleaf cattail (*Typha latifolia*) and bluejoint grass (*Calamagrostis canadensis*), with shrub species such as glossy buckthorn (*Frangula alnus*) located along the upper wetland edge within the Project ROW. Surrounding land use within the Project ROW includes sand and gravel pit operations, while surrounding land use outside of the ROW is primarily undeveloped forested land. According to soil survey information available on the United States Department of Agriculture ("USDA"), NRCS Web Soil Survey website, Borohemists, ponded soils are underlying the wetland which are very poorly drained and consist of a mucky surface layer. Evidence of wetland hydrology found at the time of the field survey included water stained leaves, a water table found at the soil surface, and soil saturation. Principal wetland functions include floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, nutrient removal, and wildlife habitat.

Beaver Brook Floodplain - Wetland WA 72

Wetland WA 72 intersects the Project ROW between Bridge Street and Windham Road at the Windham/Hudson town line. Wetland WA 72 is classified as a combination of wetland cover type classes including PEM1C and PSS1C. Wetland WA 72 borders Beaver Brook which is a 4th order perennial stream classified as R2UB2/3. Beaver Brook drains from northeast to southwest across the Project ROW. The wetland is associated with the FEMA 100-year floodplain of Beaver Brook and recognized as a seasonally flooding cattail marsh natural community by the NHNHB.

Vegetation within Wetland WA 72 is generally dominated by dense woody vegetation including common winterberry (*Ilex verticillata*), species of willow (*Salix* spp.), maleberry (*Lyonia ligustrina*) and species of honeysuckle (*Lonicera* spp.). Surrounding land within the Project ROW is primarily maintained as shrubby upland vegetation while surrounding land outside of the ROW is undeveloped forest. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Rippowam fine sandy loam soils are underlying the wetland which are characterized as floodplain soils. Evidence of wetland hydrology found at the time of the field survey included a water table observed at 14 inches under the soil surface, saturation observed at 11 inches under the soil surface, and drift deposits. Principal wetland functions include floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, and wildlife habitat.

Wetlands with a PUB component associated with Sand/Gravel Pits

Nearly all wetland complexes located within the Project ROW between Tallant Road and the newly constructed Ryan Farm Road have been impacted by historic sand and gravel extraction. These areas are primarily dominated by PSS1E wetland communities, but also contain a PUB component where the aggregate extraction has occurred below the regional groundwater table. In some instances, streams have formed where the groundwater is able to flow downslope. Shrubby vegetation in these wetlands is dominated by common winterberry, speckled alder (*Alnus incana*), and glossy buckthorn. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Hinckley loamy sands, Chatfield-Hollis-Rock outcrop complexes, and Deerfield loamy fine sand soil map units are underlying these wetlands. Evidence of hydrology found within these wetlands at the time of the field survey included surface water, a high water table, soil saturation, and water stained leaves. The principal function and value in these wetlands was determined to be groundwater recharge and discharge due to their intersection with the groundwater table.

Agricultural/Hayfield Wetlands

Four wetlands, identified as WA 52, WA 53, WA 54, and WA54A, located within the Project ROW to the south of Tallant Road and east of Simpson Road, are associated with agricultural fields, currently utilized for hay production. These wetlands are classified as PEM1E wetlands and are located along a flat landscape. The vegetation is subject to regular mowing and, therefore, restricts the dominant vegetation principally to reed canary grass (*Phalaris arundinacea*), soft rush (*Juncus effusus*), woolgrass (*Scirpus cyperinus*) and timothy grass (*Phleum pratense*). Some areas of these fields appear to have been left fallow for a year or two and are beginning to be reclaimed by woody shrub vegetation such as glossy buckthorn, speckled alder, meadowsweet (*Spiraea alba latifolia*), and common winterberry. The surrounding land is primarily agricultural land with a small undeveloped forested stand to the west of the existing ROW. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Woodbridge loams and Pipestone loamy sands are underlying these wetlands. Evidence of wetland hydrology found at the time of the field survey included a water table found within 10 inches of the soil surface and saturation at the soil surface. Principal wetland functions and values for these wetlands include nutrient removal and production export.

PSS1E wetlands with a PFO component to be cleared for construction

Several wetland complexes located within the Project ROW extend into un-cleared forested portions of the Project ROW's western edge. Most of these wetlands consist of a PSS1E and/or PEM1E wetland classification which transitions into a PFO1E classification along the western side. These wetlands occur throughout Segment 2. The PSS1E/PEM1E portions of these wetlands are further described below. The forested portions of these wetlands along the western ROW edge are typically dominated by tree species such as red maple (*Acer rubrum*), eastern white pine (*Pinus strobus*), gray birch (*Betula populifolia*), green ash (*Fraxinus pennsylvanica*), and in some areas American elm (*Ulmus americana*). Soils series within these wetlands vary greatly, but typically consist of stony glacial tills. Evidence of wetland hydrology found at the time of the field survey included drainage patterns, saturated soils, water stained leaves, and a water table observed within 10 inches of the soils surface. Some of these wetlands are associated with intermittent and small perennial streams. Principal

functions and values characteristic of these wetlands include floodflow alteration and wildlife habitat.

PSS1E wetlands within the Project ROW

A majority of the wetlands within Segment 2 are PSS1E wetlands, sometimes associated with a PEM1E component and are generally found in narrow drainages. The vegetation in these wetlands is periodically sprayed with herbicides or mechanically cut to maintain a safe distance from the existing transmission lines. Species typically found in these wetlands may include tree species, which are not permitted to grow beyond a sapling growth stage, including red maple and gray birch. Common dominant shrub species found within these wetlands include glossy buckthorn, common winterberry, arrowwood (*Viburnum recognitum*), species of dogwood (*Cornus* spp.), maleberry, meadowsweet, steeplebush (*Spiraea tomentosa*), and speckled alder. PEM1E portions of these wetlands are typically dominated by rough stemmed goldenrod (*Solidago rugosa*), bluejoint grass, soft rush, purple loosestrife (*Lythrum salicaria*), joe-pye weed (*Eutrochium purpureum*) and beggars tick (*Bidens frondosa*). Active ATV trails are commonly found crossing throughout these wetlands. Soils series within these wetlands vary greatly, but typically consist of stony glacial tills. Evidence of wetland hydrology found at the time of the field survey included drainage patterns, saturated soils, water stained leaves, and a water table observed within 10 inches of the soils surface. Some of these wetlands are associated with intermittent and small perennial streams. Several of these wetlands do not provide any significant functions and values due to their size and isolated nature, but when present, floodflow alteration and wildlife habitat are most common.

Segment 3

The regional topography of Segment 3 changes noticeably near Nashua Road in Londonderry. South of Nashua Road, Segment 3 is characterized by a rolling landscape with areas of shallow and exposed bedrock and a few ponded areas. North of Nashua Road, Segment 3 is much flatter in topography with deeper soils.

Chase Brook Floodplain - Wetland WA 89

Wetland WA 89 intersects the Project ROW between Boyd Road and Nashua Road (Route 102) in Londonderry. Wetland WA 89 borders Chase Brook which flows from east to west across the Project ROW. Wetland WA 89 is classified as a PUB2H wetland within a ponded area along the eastern side of the Project ROW and transitions to a PEM1G wetland within the western half of the Project ROW. Chase Brook is a 2nd order stream and is classified as R2UB2H within the Project ROW. Along the western portion of the ROW, Wetland WA 89 intersects the FEMA 100-year floodplain of Chase Brook.

Vegetation within Wetland WA 89 is dominated by emergent herbaceous species including narrow-leaf cattail (*Typha angustifolia*) and various grasses and sedges. Surrounding land within the Project ROW is primarily maintained as shrubby upland vegetation while surrounding land outside of the ROW is undeveloped forest. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Greenwood and Ossipee ponded soils are underlying the wetland which are characterized as organic matter

over glacial till. Evidence of wetland hydrology found at the time of the field survey included surface water at a depth over 3 feet, soil saturation, drift deposits, and geomorphic position. Signs of beaver activity were present within Wetland WA 89 at the time of observation likely contributing to the ponded hydrology of the wetland along the eastern side of the ROW. Principal wetland functions include groundwater recharge/discharge, floodflow alteration, and wildlife habitat.

Nesenkeag Brook Floodplain - Wetland WA 97

Wetland WA 97 intersects the Project ROW between Nashua Road (Route 102) and Dan Hill Road in Londonderry. Wetland WA 97 borders Nesenkeag Brook which flows from east to west across the Project ROW. Wetland WA 97 is located within the FEMA 100-year floodplain of the brook. Nesenkeag Brook is a 2nd order stream at this location and is classified as R2UB3H within the Project ROW. Wetland WA 97 is classified as a combination of PEM1F and PSS1F cover types along the western side of the Project ROW and is classified as PEM1H along the eastern side of the ROW.

Wetland vegetation is generally dominated by emergent herbaceous species such as narrow-leaf cattail, reed canary grass, joe-pye weed and purple loosestrife, and woody shrub species including speckled alder and species of dogwood. Surrounding land within the ROW is primarily composed of old sand/gravel pits now maintained as shrubby upland vegetation while surrounding land outside of the ROW is undeveloped forest. According to soil survey information available on the USDA, NRCS Web Soil Survey website, the Pits, sand and gravel map unit is predominant throughout the wetland area. Evidence of wetland hydrology found at the time of the field survey included up to two feet of standing water, saturated soils, and drainage patterns. Principal wetland functions include groundwater recharge/discharge, floodflow alteration, and wildlife habitat.

Large PEM Wetland complexes

Two large PEM wetland complexes are located within Segment 3. Wetland WA 77B is located to the north of David Drive in Hudson and is associated with an unnamed perennial stream identified as a tributary to Robinson Pond. Wetland WA 93 is located to the north of Nashua Road (Route 102) in Londonderry. Both wetlands have semi-permanently flooded hydrological regimes and extend well outside of the maintained Project ROW both to the east and west with forested wetland cover types present along the ROW's eastern edge. Dominant emergent herbaceous vegetation includes cattails, woolgrass, soft rush, and purple loosestrife. In the forested portions of the wetlands, red maple trees are dominant, with common winterberry and cattails present in the understory. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Greenwood mucky peat is predominant within both wetlands. Evidence of wetland hydrology found at the time of the field survey included surface water, soil saturation, water stained leaves, water marks, and stunted or stressed plants (specific to forested portion of wetland). Principal functions and values exhibited by these wetlands include groundwater recharge/discharge, floodflow alteration, sediment/toxicant retention, and wildlife habitat.

PSS/PEM wetlands with a PFO component to be cleared for construction

Multiple scrub-shrub and emergent wetlands located along Segment 3 of the Project ROW extend into the currently un-cleared forested eastern side of the ROW. Most of these wetlands consist of PSS1E and/or PEM1E cover types which transition into a PFO1 classification with varying hydrological regimes from saturated to seasonally-flooded. The PSS/PEM portions of the wetlands are further described below. The forested portions are typically dominated by tree species such as red maple, swamp white oak (*Quercus bicolor*), American elm, gray birch, green ash, and in some areas eastern white pine and eastern hemlock (*Tsuga canadensis*). Soils series within these wetlands vary greatly, but typically consist of stony glacial tills and areas of shallow bedrock. Evidence of wetland hydrology found at the time of the field survey included drainage patterns, saturated soils, water stained leaves, and a water table observed within 10 inches of the soil's surface. Some of these wetlands are associated with intermittent and small perennial streams generally flowing east to west. Principal functions and values characteristic of these wetlands include floodflow alteration and wildlife habitat.

PSS/PEM wetlands within the ROW

A majority of the wetlands within Segment 3 are PSS wetlands, sometimes interspersed with PEM cover types. The vegetation in these wetlands is periodically sprayed with herbicides or mechanically cut to maintain a safe distance from the existing transmission lines. Species typically found in these wetlands may include tree species, which are not permitted to grow beyond a sapling growth stage, including red maple, eastern white pine, and species of birch. Common dominant shrub species found within these wetlands include species of willow, common winterberry, witch hazel (*Hamamelis virginiana*), meadowsweet, steeplebush, and speckled alder. PEM portions of these wetlands are typically dominated by species of goldenrod (*Solidago* spp.), New England aster (*Symphyotrichum novae-angliae*), flat-topped white aster (*Doellingeria umbellate*), cattails, sensitive fern (*Onoclea sensibilis*), bristly dewberry (*Rubis hispidus*), purple loosestrife, joe-pye weed, woolgrass and various sedges. Active ATV trails are commonly found crossing throughout these wetlands. Soils series within these wetlands vary greatly, but typically consist of shallow stony glacial tills. Evidence of wetland hydrology found at the time of the field survey included drainage patterns, saturated soils, water stained leaves, geomorphic position, and a water table observed within 10 inches of the soils surface. Some of these wetlands are associated with intermittent and small perennial streams. Several of these wetlands do not provide any significant functions and values due to their size and isolated nature, but when present, floodflow alteration and wildlife habitat are most common.

Segment 4

The regional topography of Segment 4 is generally flat with a greater presence of large emergent wetland complexes throughout its length. An area of shallow bedrock is located between Bancroft Road and Hovey Road, west of Interstate 93, and is comprised predominantly of upland communities.

Beaver Brook Floodplain Wetland - Wetland WA 165

Wetland WA 165 is a large wetland complex associated with Beaver Brook intersecting the Project ROW between Rockingham Road (Route 28) and the Scobie Pond 345 kV Substation (Project end point) in Londonderry. Wetland WA 165 is comprised of multiple wetland classifications including PFO1F, PFO1E, PUB2H, PSS/EM1G, and PEM1H and intersects the FEMA 100-year floodplain of Beaver Brook. Beaver Brook is classified as a 2nd order stream in this location and flows across the Project ROW from west to east.

Wetland WA 165 is dominated by emergent herbaceous vegetation where it intersects the floodplain associated with Beaver Brook, scrub-shrub vegetation within the cleared/maintained portion Project ROW, and various tree species in the un-cleared forested portion of the Project area to the southwest of the Scobie Pond 345 kV Substation. Additionally, ponded surface water encompassing the PUB cover type is present within the cleared/maintained portion of the Project ROW to the north of Beaver Brook. Hydrological regimes vary from seasonally flooded/saturated to permanently flooded. Evidence of beaver activity was present at the time of the field studies, undoubtedly influencing the flooded hydrology of the wetland.

The emergent portions of Wetland WA 165 are dominated by plant species such as cattail, woolgrass, dark green bulrush (*Scirpus atrovirens*), New England aster, purple loosestrife, royal fern (*Osmunda regalis*), sphagnum (*Sphagnum* spp.), and various sedges. The scrub-shrub portions of the wetland are dominated by species of willow, red maple saplings, steeplebush, and common winterberry, while the forested portion is dominated by red maple, species of birch, eastern white pine, cinnamon fern (*Osmunda cinnamomea*), high-bush blueberry (*Vaccinium corymbosum*), and jewelweed (*Impatiens capensis*). Surrounding land is made up of several overhead transmission line ROWs which converge at the Scobie Pond 345 kV Substation as well as a number of other electric transmission substation sites. According to soil survey information available on the USDA, NRCS Web Soil Survey website, Greenwood and Ossipee ponded soils are underlying the wetland which are characterized as organic matter over glacial till. Evidence of wetland hydrology found at the time of the field survey included surface water, saturation, drainage patterns, and water marks. Principal wetland functions include groundwater recharge/discharge, floodflow alteration, sediment/toxicant retention, nutrient removal, and wildlife habitat.

Large PEM Wetland complexes

Nine large PEM wetland complexes intersect the Project ROW along Segment 4, including Wetlands WA 110, WA 111, WA 117, WA 128, WA 137, WA 144, WA 146A, WA 149 and WA 149A. The emergent portions of these wetlands span the entire width of the existing Project ROW and most extend well outside the maintained ROW limits. Dominant emergent vegetation within these wetland systems include cattails, woolgrass, meadowsweet, dark green bulrush, joe-pye weed, soft rush, fowl managrass (*Glyceria striata*), blue flag iris, purple loosestrife and various sedges. A narrow un-cleared forested strip exists within several of these wetlands in the center of the ROW and is generally dominated by tree species such as red maple, yellow birch, and white pine in the overstory with species such as common winterberry, speckled alder, high bush blueberry, steeplebush, royal fern, bristly dewberry, and New England aster found in the understory. Evidence of wetland hydrology found at the

time of the field survey included surface water, a water table within 10 inches of the soil surface, soil saturation, geomorphic position, and drainage patterns. Principal functions and values exhibited by these wetlands include groundwater recharge/discharge, floodflow alteration, sediment/toxicant retention, nutrient removal, and wildlife habitat. **Table 3** below describes the soil survey information found within these wetland systems as available on the USDA, NRCS Web Soil Survey website.

Table 3: NRCS Mapped Soils of Large PEM Wetlands along Segment 4

Wetland ID	NRCS Soil Series	Brief Soil Description
WA 110	Chocorua mucky peat	25” mucky peat over coarse sand
WA 111	Greenwood mucky peat	60” mucky peat
WA 117	Greenwood mucky peat	60” mucky peat
WA 128	Greenwood mucky peat	60” mucky peat
WA 137	Chocorua mucky peat	25” mucky peat over coarse sand
WA 144	Greenwood mucky peat	60” mucky peat
WA 146A	Chocorua mucky peat	25” mucky peat over coarse sand
WA 149	Ossipee mucky peat	26” mucky peat over clay loam
WA 149A	Ossipee mucky peat	26” mucky peat over clay loam

PSS/PEM wetlands with a PFO component to be cleared for construction

Segment 4 has an approximate 50-foot wide un-cleared area of trees running down the center of the Project ROW. Several wetland complexes located within the Project ROW are partially located within this narrow strip and are otherwise dominated by scrub-shrub and emergent vegetation throughout the maintained portion of the ROW. Characteristics of the PSS/PEM portions of these wetlands are further described below. The un-cleared forested portions of these systems located within the center of the Project ROW are typically dominated by tree species such as red maple, green ash, yellow birch, and white pine. Soils series within these wetlands vary greatly, but typically consist of deep, stony fine loamy sand tills. Wetland hydrology ranges between seasonally saturated to seasonally flooded/saturated. Evidence of wetland hydrology found at the time of the field survey included drainage patterns, soil saturation, water stained leaves, and a water table observed within 10 inches of the soils surface. Principal functions and values associated with the forested portions of these wetlands include floodflow alteration and wildlife habitat.

PSS/PEM wetlands within the ROW

A majority of the wetlands within Segment 4 are PSS wetlands, sometimes interspersed with PEM cover types. The vegetation in these wetlands is periodically sprayed with herbicides or mechanically cut to maintain a safe distance from the existing transmission lines. Species typically found in these wetlands may include tree species, which are not permitted to grow beyond a sapling growth stage, including red maple, white pine, and species of birch. Common dominant shrub species found within these wetlands include meadowsweet, maleberry, winterberry, speckled alder, and species of willow. PEM portions of these wetlands are typically dominated by New England aster, woolgrass, interrupted fern, purple loosestrife, flat-top white aster, soft rush, species of goldenrod, and joe-pye weed. Active ATV trails are commonly found crossing throughout these wetlands. Soils series within these

wetlands vary greatly, but typically consist of stony glacial tills. Evidence of hydrology observed during field studies included drainage patterns, saturated soils, geomorphic position, water stained leaves, and a water table observed within 10 inches of the soil surface. Several of these wetlands do not provide any significant functions and values due to their size and isolated nature, but when present, floodflow alteration and wildlife habitat are most common.

4.3 Wetland Function and Values

Section 4.2 lists the principal functions and values exhibited by common wetland types found along each Segment of the Project ROW. The following provides the general methodology and approach used to determine these principal functions and values and a brief discussion on certain wetland characteristics (i.e., cover types, landscape position, composition of surrounding environment, etc.) which lead to one function and/or value being present within a wetland over another. Additionally, the Project's impact on wetland functions and values is discussed.

Functions and values presented below are based on a descriptive, best professional judgment approach, with reference to the methodology recommended by the U.S. Army Corps of Engineers New England District - *The Highway Methodology Workbook Supplement: Wetland Functions and Values - A Descriptive Approach*. Thirteen wetland functions and values are recognized under the USACE methodology:

- Groundwater Recharge/Discharge;
- Floodflow Alteration (Storage & Desynchronization);
- Fish and Shellfish Habitat;
- Sediment/Toxicant Pathogen Retention;
- Nutrient Removal/Retention/Transformation;
- Production Export (Nutrient);
- Sediment/Shoreline Stabilization;
- Wildlife Habitat;
- Recreation (Consumptive & Non-Consumptive);
- Educational/Scientific Value;
- Uniqueness/Heritage;
- Visual Quality/Aesthetics; and
- Threatened or Endangered Species Habitat.

The USACE Highway Methodology provides a list of considerations and qualifiers that are used to assess the occurrence of each function or value, followed by a subjective determination of Principal Functions and Values, with documentation of supporting rationale on standard forms (included as **Attachment G**).

Some of the larger wetland complexes found within the Project ROW, including Lower Golden Brook Prime Wetland, Beaver Brook Floodplain wetland, and other large emergent/scrub-shrub systems associated with open water components offer riparian storage of meltwater, floodwater, and stormwater. Due to their vegetative structure, with dense, erect

emergent and scrub-shrub vegetation, these wetlands are important for trapping sediments and nutrients within the system, for reducing flow velocities, and for erosion control. These wetlands may also play a role in groundwater discharge or recharge dependent upon soil composition, landscape position, and their proximity to underlying aquifers. In addition, these wetlands may provide productive wildlife habitat (especially for invertebrates), and may be valuable in production export functions related to the ability of the wetland to provide food sources to wildlife. Therefore, these larger wetland complexes likely support wildlife in greater capacity than other systems that are isolated, smaller in size, and/or contain a less diverse structure of wetland classes and interspersion of vegetation. Due to their relationship with perennial streams and waterbodies, they may also contribute to valuable fisheries habitat and recreational opportunities such as canoeing and kayaking, although recreational opportunities would be limited to areas outside of the Project ROW.

The majority of the other Project ROW wetlands are currently maintained as either scrub-shrub or emergent habitat. Scrub-shrub wetlands in general have functions similar to forested wetlands. When associated with a stream, they often receive over bank flooding and are significant in flood alteration and often protect stream banks from erosion. Scrub-shrub wetlands are very productive in terms of food resources where they support berried varieties of shrubs. These wetlands tend to be more structurally diverse, and therefore tend to support more diverse wildlife species than forested wetlands. This is especially true because they are commonly associated with streams that can act as wildlife corridors or that offer a wider range of local habitat conditions. However, when not associated with a stream, hydrologically isolated and small in size, these wetlands tend to exhibit limited functions and values.

None of the Project impacts are expected to permanently alter the hydrology of wetlands (i.e., no inflow/outflow restrictions) along the Project ROW. Therefore, the Project will not permanently impact water quality and hydrologic functions. These functions include groundwater recharge/discharge, floodflow alteration, or sediment and nutrient trapping, which are performed by wetlands within the Project area, specifically the larger emergent/scrub-shrub complexes which are present. Some temporary impacts to the wildlife habitat value of Project ROW wetlands are anticipated during the construction period as a result of noise and the presence of work crews and equipment, but these impacts will be short-term.

Tree clearing is proposed along certain portions of each of the three Segments of the Project ROW in New Hampshire which will result in the conversion of forested wetland cover types to scrub-shrub/emergent cover types. It is expected that some of this tree clearing will impact wildlife habitat, however the forested communities where clearing impacts will occur are not significantly different in their general habitat characteristics relative to adjacent forested uplands. The most valuable wildlife habitat functions of the Project ROW wetlands are provided by the emergent-open water wetland classes currently present within the interior of the Project ROW, which will not be impacted by clearing activities.

4.4 Vernal Pools

Vernal Pool habitat along Segments 3 and 4 of the Project ROW was identified and mapped by Normandeau in April of 2012 in support of a previous PSNH project. During September and October 2014, VHB Wetland Scientists reviewed all areas previously mapped as vernal pools by Normandeau as well as identified new areas along all three Segments of the Project ROW which displayed characteristics indicating viable vernal pool habitat. VHB revisited previously identified pools and areas previously noted as displaying potential habitat during the peak breeding season of the indicator amphibian species in late April 2015. A total of 17 vernal pools were identified along the Project ROW. Refer to **Attachment A** for the location of each pool, and **Attachment H** for pool photographs and a Vernal Pool Summary Table providing greater detail on each pool identified.

5.0 Proposed Wetland and Vernal Pool Impacts

Proposed direct temporary and permanent wetland impacts subject to RSA 482-A as well as indirect wetland impacts subject to Section 404 of the Clean Water Act are discussed in detail below.

5.1 Wetland and Vernal Pool Impacts Subject to RSA 482-A

Wetlands

As previously stated, the Project has been carefully designed to avoid and minimize impacts to jurisdictional resource areas to the maximum extent practical. A total of **4,428** sq. ft. of wetlands will be permanently filled to install utility structures, complete proposed improvements to existing ROW accessways in four locations and conduct required grading associated with the partial realignment of intermittent stream channel SA-41. Additionally, up to a total of **388,895** sq. ft. of temporary wetland impact will result from the use of matting to access each new structure and removal location and to create a stable work platform. Temporary impacts are also a result of pulling/tensioner pads, and guard protection pads which will be located along the Project ROW.

Refer to **Attachment A** for proposed locations of temporary and permanent wetland impacts and **Attachment B** for a breakdown of impacts by wetland.

Vernal Pools

Through careful project design (adjusting locations of new structures, as well as proposed accessways, temporary matting, construction work pads, and pull pad sites), permanent and/or temporary fill impacts to vernal pools have been entirely avoided.

Impacts to Lower Golden Brook Prime Wetland

Of the total permanent and temporary wetland impacts described above, the Project will result in approximately **35,622** sq. ft. of temporary impact and **628** sq. ft. of permanent impact to Lower Golden Brook Prime Wetland (identified as WA 46) located in Pelham. Temporary wetland impacts are the result of construction work pads and access matting associated with the installation of proposed Structures 98 and 99 along the new 3124 Line and Structure 34 along the relocated Y-151 line. Of the total permanent impacts proposed, approximately 52.5 sq. ft. accounts for direct permanent fill within the prime wetland resulting from these structure installations, while the remaining 575.5 sq. ft. is associated with proposed permanent improvements to an existing ROW accessway where it crosses WA 46. Refer to Sheets 42 and 43 of **Attachment A** for the location of temporary and permanent impacts. Documentation that the proposed work within Lower Golden Brook Prime Wetland complies with the requirements contained under RSA 482-A:11, IV is provided below.

(1) There will be no significant net loss of values set forth in RSA 482-A:1;

Principal wetland functions and values provided by WA 46 include floodflow alteration, fish and shellfish habitat, sediment/toxicant retention, nutrient removal, and wildlife habitat (Refer to the Function and Value Assessment Form for WA 46 found in **Attachment G**).

Proposed installation of Structures 98 and 99 and the relocation of Structure 34 is not expected to permanently alter the hydrology of WA 46 (i.e., no inflow/outflow restrictions) and, therefore, will not significantly impact water quality and hydrologic functions including floodflow alteration or sediment and nutrient trapping, which are performed by WA 46. Additionally, no impacts to fish and shellfish habitat will result from the proposed structure installations since the proposed work is located outside of the bed and banks of Golden Brook located within WA 46 to the south of the Project work. Some temporary impacts to other wildlife species that may inhabit WA 46 or utilize the wetland as a food source is anticipated during the construction period as a result of noise and the presence of work crews and equipment, but these impacts will be short-term.

Proposed accessway improvements will involve installation of a stone ford. Stone fords allow for vegetation to grow between the stone and allow water to seasonally flow over the stone maintaining existing wetland hydrology and allowing for wildlife passage. Therefore, this improvement is not expected to impact the functions and values of WA 46.

(2) The project is consistent with the purpose specified in RSA 482-A:1;

Where Lower Golden Brook Prime wetland intersects the Project ROW, the wetland resembles a typical emergent wetland system commonly found within electric utility ROWs in New Hampshire. Surrounding land use within the Project ROW includes sand and gravel pit operations, while surrounding land use outside of the ROW is primarily undeveloped forested land. Currently, there are three existing overhead electric utility lines and associated structures crossing through the prime wetland within the Project ROW. The Project work within the prime wetland will not alter the appearance or characteristics of the wetland at this location and none of the functions and values of the wetland are expected to be impacted.

(3) The project could not be relocated to avoid impacts on prime wetlands without either reducing the public value of the project, or negatively affecting the public health or safety;

The Project has been designed to be contained within the limits of an existing electric utility ROW. The prime wetland cannot be avoided within the limits of the Project ROW due to its width which is greater than 1,000 feet. This significant linear distance eliminates the possibility of spanning the wetland from one end to the other without compromising the structural integrity of the new and relocated lines.

Lower Golden Brook Prime Wetland extends well outside the limits of the existing Project ROW to the north and south. Avoiding the prime wetland would require significant design changes, land acquisition, higher costs and likely greater environmental impacts.

(4) The project's impacts on prime wetlands are the minimum practical without either reducing the public value of the project, or negatively affecting the public health or safety; and

The majority of the impacts proposed are temporary, while proposed permanent impacts are small relative to the size of the wetland. In addition, Project work at this location has been designed to avoid impacts to the bed and banks of Golden Brook located within the wetland to the south.

(5) The project incorporates appropriate and practicable compensatory mitigation for each of the wetland functions and values of RSA 482-A:1, and each of the functions and values ranked by the municipality, that are impacted by the project. The mitigation proposed will be appropriate in terms of matching the proposed benefit given the relative harm of the project. The mitigation will be practicable given the technology available at the time of the application to the department.

Since the Project work within Golden Brook Prime Wetland will not result in the loss of wetland functions and values, compensatory mitigation as described in Env-Wt 703.02 is not required.

5.2 Wetland and Vernal Pool Impacts Subject to Section 404 of the Clean Water Act

Wetlands

In addition to the direct wetland impacts under the jurisdiction of RSA 482-A, conversion of forested wetlands to scrub-shrub wetlands is necessary to construct the Project. Up to **10.9** acres (**473,725** sq. ft.) of forested wetlands will be cleared. Clearing is required in the following locations:

- **Segment 2** – Clearing is required along select portions of the eastern edge of the existing NEP-owned ROW in order to accommodate the relocated Y-151 line.
- **Segment 3** – Clearing is required along the approximately 90-foot wide un-cleared eastern edge of the PSNH-owned ROW to accommodate the new 3124 Line.
- **Segment 4** – Clearing is required along the approximately 50-foot wide portion of forested land down the center of the existing PSNH-owned ROW to accommodate the new 3124 Line.

Clearing will allow for the installation of the utility structures, and is also required to meet the vegetation and vertical clearance requirements. Note that clearing will be conducted in a manner as to not disturb the soil surface. Clearing in wetlands will be done by hand. There will be limited grubbing or grading, and proper BMPs will be used during clearing activities to prevent excess rutting. Grubbing will only be required at the proposed new structure locations and to obtain level work pad surfaces.

See **Attachment A** for proposed locations of wetland clearing impacts and **Attachment B** for a breakdown of clearing impacts by wetland.

Vernal Pools

Vegetative clearing associated with Project construction will occur directly within the boundaries of 11 vernal pools and within the 250-foot buffer of 16 out of the 17 vernal pools identified along the Project ROW. Direct clearing impacts total approximately **31,791** sq. ft. (**0.7** acres). Clearing impacts proposed within the 250 feet of vernal pools total approximately **332,335** sq. ft. (**7.6** acres). Refer to **Attachment A** for proposed locations of vernal pool clearing impacts and **Attachment H** for a breakdown of clearing impacts by pool.

6.0 Surface Waters & Drainage Patterns

There are a total of 13 perennial stream crossings and 20 intermittent stream crossings along the Project ROW in Pelham, Windham, Hudson and Londonderry. In addition, the Project ROW is largely comprised of densely vegetated scrub-shrub and emergent wetland systems. The hydrology of these wetlands was discussed in **Section 4.0.** The following provides a general description of the principal rivers and streams intersecting the Project ROW and the impacts to these surface waters proposed by the Project. Detailed information specific to each stream channel is included in the Stream Table found in **Attachment B**.

6.1 Principal Streams Intersecting the Project ROW

Beaver Brook

Beaver Brook is the only fourth order stream intersecting the Project ROW in New Hampshire. Beaver Brook comes within close proximity to the western edge of the Project ROW in Pelham, crosses the Project ROW at the Windham/Hudson town line, and intersects the Project ROW just south of the Scobie Pond 345 kV Substation in Londonderry. As a second order stream, Beaver Brook flows from the outlet of Beaver Lake in Derry west and then, as a fourth order stream, south through Pelham and then into Dracut, Massachusetts. It eventually flows into the Merrimack River in the City of Lowell. The upper section of Beaver Brook in Derry and Londonderry is listed as impaired for aquatic life uses due to elevated chloride levels. The lower sections of Beaver Brook in Windham and Pelham are not listed as impaired. The Protected Shoreland Zone of Beaver Brook intersects the Project corridor in Pelham and at the Windham/Hudson town line. Beaver Brook is classified as a 2nd order stream at the location where it crosses the Project ROW to the south of the Scobie Pond 345 kV Substation. Therefore, this location is not subject to jurisdiction under the Shoreland Water Quality Protection Act (SWQPA) *RSA 483-B*. A Shoreland Permit Application has been prepared and submitted to the NHDES Shoreland Program to address proposed impacts within the protected shoreland of Beaver Brook as further discussed in **Section 12.0** of the Application Narrative.

The new 3124 Line will require two crossings over Beaver Brook, one at the Windham/Hudson town Line, and one in Londonderry just west of the Scobie Pond 345 kV Substation. Beaver Brook is identified as a "Public Water" by the State of New Hampshire where it crosses the Project ROW at the Windham/Hudson town line. Since the Beaver Brook crossing to the west of the Scobie Pond 345 kV Substation in Londonderry does not fall under the jurisdiction of the SWQPA, it is not recognized as a Public Water. A petition filed with Public Utilities Commission (PUC) is required to span electrical utility lines over a Public Waterbody and will be submitted to the PUC simultaneously with this application. As the crossing currently contains three existing overhead electric transmission lines owned by NEP, it is expected that there will be no impacts to waterway commerce or navigation, as the proposed Line 3124 has been designed in a similar configuration to the other existing 115 kV and 230 kV lines.

Other Significant Stream Crossings

Other significant streams located near or within the Project ROW in Pelham or Windham include a tributary to Tonys Brook, Golden Brook, and several unnamed tributaries to Beaver Brook. Tonys Brook, located outside of the Project ROW, is the only stream listed as impaired for both aquatic life and primary recreation uses.

Significant stream crossings in Hudson include a number of tributaries to Robinson Pond including Howard Brook, and Chase Brook, which intersects the Project ROW near the Londonderry/Hudson town line. Chase Brook is a tributary to the Merrimack River, and flows into the river approximately four miles west of the ROW. None of the stream crossings in Hudson are listed on the NHDES' 303(d) list of impaired water bodies.

Farther north in Londonderry, the Project ROW crosses several tributaries as well as the main stem of Nesenkeag Brook, which flows into the Merrimack River approximately two miles to

the west of the ROW. This stream is listed as impaired for aquatic life uses due to previously observed low dissolved oxygen levels and low biotic index values derived from previous benthic macroinvertebrate assessments. The source(s) for the low dissolved oxygen levels and low biotic values are listed as unknown according to the NHDES' 303(d) list. The target date for completing a Total Maximum Daily Load (TMDL) study is 2016.

7.0 Proposed Stream Impacts

Proposed direct temporary and permanent stream impacts subject to RSA 482-A as well as indirect wetland impacts subject to compensatory mitigation in accordance with USACE Section 404 permitting is discussed in detail below.

7.1 Stream Impacts Subject to RSA 482-A

Of the 13 perennial stream crossings located along the Project ROW, three may be spanned with mats (resulting in no impact) during project construction where historic ROW accessways exist and have since been flooded due to beaver activity. One other perennial stream may be crossed where an established ROW accessway and culvert exists. Of the 20 intermittent stream crossings located along the Project ROW, four may be crossed where established accessways and culverts exist, while five may be spanned with mats (resulting in no impact) during Project construction at locations where historic ROW accessways once existed.

Project construction may result in a total of **6,365** sq. ft. of temporary bed impact to streams located along the Project ROW as a result of the placement of construction work pads or pull pads over channels located within close proximity to proposed structure installations or where mat spans are not feasible (significant linear crossings). Refer to the Stream Table found in **Attachment B** for additional information regarding these proposed temporary impacts.

Beaver dams which are found along the Project ROW will be assessed in the field prior to Project construction to determine the level of obstruction and impact to ROW access. Existing dams may need to be breached to lower water levels during Project construction. Additionally, if the contractor determines that the dam is permanently obstructing an accessway that is vital to maintenance and repair or emergency outage activities or if the dam threatens the stability of existing or proposed structures, the NHDES Water Division will be contacted for approval to remove the dam. The removal or breaching of an existing beaver dam would result in lower water levels within the associated stream channel, but at the same time would restore historic flow regimes.

The principal water quality concern associated with the Project relates to the potential for increased sediment erosion and movement during the construction period. As discussed in **Section 11.0**, various BMPs will be used during the construction period to minimize the erosion potential and sediment migration from the Project area. No new impervious surfaces or petroleum liquid storage facilities are proposed as part of the Project.

Stream SA-41 Partial Realignment

In order to accommodate the installation of proposed 3-pole Structure 253 along the 3124 Line in Londonderry, the Project will involve realignment of the western portion of a single intermittent stream channel, identified as SA-41 on Sheet 87 of the Wetland Permitting Plans (**Attachment A**). The proposed channel realignment ("the Site") is located within the PSNH ROW approximately 1,200 feet east of High Range Road. Channel realignment is necessary at this location, as it has been determined by project engineers that the stream could interfere with the central support footing and/or the designated guy anchors of proposed Structure 253, thus compromising its long-term stability. The proposed location of Structure 253 cannot be moved as its location represents a critical turning point in the ROW where the 3124 Line changes direction to the south. Proposed realignment of the western portion of SA-41 will result in approximately **80** sq. ft. and **17** linear feet of permanent stream bed impact.

The watershed to the Site is approximately 19.2-acres with a majority of the drainage area (17.1-acres) located to the east of High Range Road flowing overland into a roadside ditch. The ditch conveys runoff to the south into an 18-inch corrugated metal pipe culvert under High Range Road. Discharge from the culvert enters a partially forested wetland (identified as WA 128A) and is then conveyed in a small channel approximately 5-feet wide and less than 0.5-ft deep. The channel then becomes braided as it continues down a 4(h):1(v) slope. Channel widths for this reach vary from 1 to 4-feet with depths approximately 1- to 2-inches. From there, the stream channel broadens and becomes undefined as flow extends into a large scrub-shrub/emergent wetland system (identified as WA 128) which Structure 253 will be partially located within.

VHB completed a site visit on April 21, 2015 with a stream specialist, NH Certified Wetland Scientist, and a survey crew. Rain from the previous night continued into the morning resulting in approximately 1-inch of rainfall as recorded by a weather station in Londonderry (KNHLOND01). Flow depths downstream from the culvert were typically 2-inches or less during the visit. Any concentrated flow dispersed as it entered the wetland systems present. The channel bed material consists mostly of forest litter and various scrub/forest vegetation. The bed material along the 4:1 slope contained some gravel/cobble material with the occasional boulder or ledge outcropping but was still predominately vegetated. The observed bed material is indicative of a system which does not frequently experiences high velocities. The primary site constraints for the channel relocation is an abutting property boundary located immediately to the south of the proposed channel alignment. VHB completed a topographic and boundary survey of the Site and roadway crossing to support hydrologic and hydraulic modeling of the conveyance system.

VHB created a hydrologic and hydraulic model using HydroCAD V.10.0 modeling software to determine peak runoff rates, flow depths, and velocities for the 1-, 2-, 10-, 25- and 100-year 24-hour design storms using Natural Resources Conservation Service (NRCS) TR-20/TR-55 rainfall-runoff methodology. VHB collected rainfall depths and distributions for each design storm from the Northeast Regional Climate Center (NRCC) located at Cornell University. The NRCC contains a comprehensive collection of historical climate data which is continually

updated based on National Weather Service (NWS) observations. Rainfall totals are shown below in **Table 4**.

Table 4: Rainfall Totals

Recurrence Interval	Rainfall Total (inches)
1-year	2.46
2-year	2.94
10-year	4.45
25-year	5.64
100-year	8.08

VHB delineated watershed boundaries based on the topographic survey and LiDAR data. To determine watershed characteristics, VHB created a custom land cover layer using Geographic Information System (GIS) software. Land cover was determined based on the site survey and aerial imagery. VHB used the land cover data layer along with hydrologic soil group information from the NRCS SSURGO database to calculate runoff curve numbers (CNs) for each land cover/soil group. Area weighted CNs were calculated for each watershed. In addition, VHB delineated time of concentration flow paths for each watershed using TR-55 methodology.

VHB entered the hydraulic data for the conveyance channels, roadway overtopping, and culvert based on the field survey and LiDAR data. The hydraulic model begins at the roadside ditch to the east of High Range Road and continues to the design point just downstream from the proposed structure location. The model includes the proposed channel realignment and geometry as shown in the design plan. The channel will be shifted to the north and has been designed to fit in between the northern two structure foundations. VHB used this hydrologic and hydraulic model to evaluate peak flows, depths and velocities at site; summarized in **Table 5** below.

Table 5: Model Results

Recurrence Interval	Q (cfs)	D (ft)	V (fps)
1-year	0.7	0.27	1.0
2-year	2.3	0.42	1.5
10-year	9.8	0.67	1.7
25-year	18.5	0.72	1.7
100-year	42.9	0.95	1.7

The results predict that that a channel approximately 5-feet wide and 0.27-feet deep will contain the predicted 1-year flood flow from the upstream watershed. The proposed channel geometry is similar to that observed in the portions of the upstream channel. The proposed channel side slopes will extend up to the existing grade at a 2(h):1(v) slope where necessary.

While this model predicts fairly shallow flow depth within the channel it does not take into account other discharges into this wetland system from streams and drainages which could

result in standing water at the proposed structure location. The model assumes free discharge from the channel into the wetland from the proposed channel. This assumption will provide the highest velocities for evaluations of potential scour and erosion. The model predicts velocities less than 2 fps within the proposed channel. Permissible velocities for channels lined with vegetation are typically 5 fps or less.

The Project proposes to realign the western end of the channel to the north around the center pole of structure 253 with the channel geometry shown on Channel Realignment Design Plan included in **Attachment A**. The model predicts velocities in the channel and approaching the structure will be less than two feet per second (fps) which fall within the acceptable range for a vegetation lined channel. Temporary erosion control blankets or similar measures will be installed within the realigned channel and around the structure upon completion of the work to allow vegetation to become established.

7.2 Stream Impacts Subject to Section 404 of the Clean Water Act

The Project will require a total of approximately **71.2** acres of upland and wetland tree clearing in New Hampshire. Some of this clearing will occur within the riparian buffers of perennial and intermittent stream channels. As an indirect measure of the potential impact that the Project may have on streams, the amount of tree clearing within 100-feet and 50-feet of a perennial and intermittent stream channel, respectively, was estimated using available GIS data and aerial imagery. Of the total **4.5** acres of tree clearing estimated to occur within the designated buffers of 22 streams in New Hampshire, approximately **2.2** acres is associated with perennial streams and the remaining **2.3** acres of tree clearing is associated with intermittent streams.

Although the Project will require tree clearing in close proximity to many of the streams intersected by or adjacent to the Project ROW, the proposed clearing will be limited to only a minor portion of the overall width of the existing ROW, which is already cleared. Given that much of the existing ROW width is already cleared, the additional clearing is not expected to result in any discernable effect on water quality or water temperatures in the intermittent or perennial streams.

Tree clearing within riparian buffers is further discussed below by Project ROW Segment. Also refer to the Stream Table included in **Attachment B** for clearing impacts broken out by stream channel.

Segment 2

Segment 2 has the least amount of proposed tree clearing within the designated stream buffer areas with a total of approximately **15,832** sq. ft. or **0.36** acres of tree clearing. The largest amount of tree clearing consists of **4,796** sq. ft. (**0.11** acres) within the riparian buffer of an intermittent tributary to Tonys Brook at the southernmost end of the Segment. For perennial streams, the largest amount of potential tree clearing consists of approximately **2,759** sq. ft. (**0.06** acres) associated with Beaver Brook (SA-21) near Winter Street and Glance Road in

Windham. The Project ROW does not actually cross the river in this location, but the river flows within close proximity to the western edge of the Project ROW.

Farther north, the existing ROW does cross over Beaver Brook near the Windham/Hudson town boundary (SA-24). The amount of tree clearing estimated to occur within 100 feet of the stream channel is **1,658** sq. ft. (**0.04** acres). This estimated amount of tree clearing is considered to be relatively minor in comparison to the overall width of the ROW (350-565 feet) and the size of the watershed area.

Segment 3

Relative to the other Segments, Segment 3 has the largest amount of proposed tree clearing within the identified stream buffer areas with a total of approximately **129,146** sq. ft. (**2.96** acres). The largest area of proposed tree clearing is associated with a small intermittent tributary to Robinson Pond (SA-28) with approximately **28,901** sq. ft. (**0.66** acres) of clearing. Approximately **16,890** sq. ft. (**0.39** acres) of tree clearing is proposed within the stream buffer associated with Chase Brook, while **10,845** sq. ft. (**0.25** acres) of tree clearing is proposed within the stream buffer associated with Nesenkeag Brook. Additionally, a total of approximately **26,151** sq. ft. (**0.60** acres) of clearing is proposed along Howard Brook.

Segment 4

The total amount of stream buffer clearing in Segment 4 is estimated to be approximately **51,988** sq. ft. (**1.19** acres). The majority of which is associated with the intermittent streams. The only tree clearing associated with a perennial stream buffer consists of approximately **4,410** sq. ft. (**0.10** acres) of clearing around the Beaver Brook crossing near the Scobie Pond 345 kV Substation. This is a relatively minor amount of tree clearing as compared to the rest of the ROW.

8.0 Floodplains and Floodways

According to FEMA FIRM, produced for Hillsborough and Rockingham Counties, portions of the Project intersect the 100-year floodplains of several named perennial streams (Refer to **Figure 3**). However, the Project has been designed to avoid structure installation within 100-year floodplain boundaries to the maximum extent practicable. A total of six (6) structures are proposed within a 100-year floodplain. Three (3) structures along the relocated Y-151 line and two (2) structures along the new 3124 Line are proposed within the 100-year floodplain of Golden Brook in Pelham. Two (2) existing structures are to be removed from the floodplain for a net gain of three structures. Also, one (1) structure along the new 3124 Line will be installed within the 100-year floodplain of Beaver Brook in Londonderry located just south of the Scobie Pond 345 kV Substation. The amount of new fill associated with installation of each new structure is minimal and access to these structures will traverse temporary matting across wetland areas. Therefore, the Project does not have the potential to cause or increase flooding.

9.0 Rare, Threatened and Endangered Species

Only common plant species were observed along the Project ROW during the course of wetland delineations by VHB Certified Wetland Scientists during the 2014 growing season. The NHNHB was consulted regarding the occurrence of rare plant, animal or natural communities within vicinity of the Project. NHNHB indicated historical records of rare plants, exemplary natural communities and invertebrate and vertebrate species in a response memo dated December 17, 2014, prompting additional consultation with the agency as well as NHF&G and USFWS (refer to **Attachment D**). Plant, invertebrate and vertebrate species identified by NHNHB, NHF&G and USFWS which intersect the Project ROW are included in **Table 6** below. Other species identified in the NHNHB report within proximity to the Project ROW include the grasshopper sparrow and wood turtle. Additionally, exemplary natural communities identified in the NHNHB report within proximity to the Project ROW include medium level fen system and swamp white oak floodplain forest.

Table 6: Records of RTE Species Intersecting the Project ROW

RTE Species		State Rank
Scientific Name	**Common Name**	
Alasmidonta varicosa	brook floater	E
Coluber constrictor constrictor	northern black racer	T
Emydoidea blandingii	Blandings turtle	E
Clemmys guttata	spotted turtle	T
Hypoxis hirsuta	common star grass	T
Desmodium rotundifolium	round-leaved trailing tick-trefoil	T
Vulpia octoflora var. tenella	eight- flowered six-weeks grass	E
Paronychia canadensis	smooth forked whitlow wort	E

Each of the identified species were addressed during a meeting with NHF&G on February 17, 2015 (refer to **Attachment D**). Since there is no work proposed within the bed or along the banks of Beaver Brook, there will be no impacts to the brook floater and no additional survey or mitigating action is required for this species. Winter construction could result in adverse impacts to the northern black racer, if hibernacula occur in Project impact areas. Surveys for the northern black racer were conducted along the Project ROW by VHB with assistance from

Michael Marchand of NHF&G in April and May 2015 in accordance with protocols developed in consultation with NHF&G (refer to **Attachment D**) in an attempt to discover hibernacula and dispersal along the Project ROW. VHB did not find any individuals or hibernacula during this survey work. At this time, NHF&G recommends additional surveys for this species during the spring of 2016. To avoid and minimize impacts to Blanding's, spotted, and wood turtles that may result during Project construction, turtle nesting surveys will occur in specific areas along the Project ROW during late spring/early summer of 2015 in accordance with NHF&G approved field protocols. Should nests be found, they will be mapped, flagged, and avoided during construction. Additionally, a training session will be held in the field with the Project contractor.

The New England cottontail has been added to the Project species list at the recommendation of NHF&G since it is listed as endangered in New Hampshire with known occurrences in Londonderry. Impacts to New England cottontail are not anticipated as the Project will allow existing shrub habitat to remain. Additionally, the Project will create new shrub habitat as a result of the clearing that is proposed. Field surveys will occur during the early part of the 2015 winter season in accordance to protocols developed in consultation with NHF&G and USFWS (**Attachment D**) in order to determine the presence of absence of this species within the Project ROW.

The USFWS has recently designated the northern long-eared bat as a threatened species under the Endangered Species Act 16 U.S.C. § 1531 et seq. (ESA) effective May 4, 2015. Since the Project is located within the range of this species and involves tree clearing, potential impacts to this species were considered. Approximately 71.2 acres of trees within the existing right of way needs to be cleared to construct the Project. No known hibernacula or roost trees occur near the Project (John Reichard, USFWS pers comm.) The NHNHB also does not have any known occurrences of northern long-eared bat occurring near the Project. Coordination with the USFWS is ongoing at this time. However, the Applicants expect to reach an agreement.

NHNHB identified records of four plant species that intersect the Project ROW, with an additional six plant species and two exemplary natural communities identified nearby. A formal plant and natural community survey is scheduled to be conducted during the 2015 growing season based on flowering times provided by NHNHB and in accordance with protocols outlined in the "MVRP Rare Plant Species Survey Memorandum," dated May 8, 2015, as approved by NHNHB (refer to **Attachment D**). Surveys will identify and map current locations and extent of the listed species within the Project ROW in order to avoid impacts to the species during construction to the greatest extent feasible.

The Project was also reviewed for the presence of federally-listed or proposed, threatened or endangered species, designated critical habitat or other natural resources of concern through the USFWS's IPaC System. A result letter dated May 15, 2015 indicated no listed species or critical habitats are located within the Project area.

10.0 Cultural Resources

10.1 Above-ground Historic Resources

Public Archaeology Laboratory (PAL) conducted a file review in March 2014 to identify properties within or adjacent to the Project area. The study areas established for the due diligence effort were broadly defined to provide information about the types of resources located within the vicinity of the Project. The Project study area does not include any properties listed in the National Register of Historic Places (National Register). There are four previously surveyed properties within the Project Area. Three properties, located northwest from the end of the Project ROW on the east side of Route 28 in Londonderry, were evaluated in 2002 as not eligible for listing on the National Register due to either a lack of significance or architectural integrity. One historic resource (Castle Hill Road Bridge) located in a residential area in Pelham was evaluated in 2008 as eligible for individual listing on the State/National Register, however, the bridge has since been replaced and is, therefore, no longer eligible.

One potentially significant historic property was identified during a field survey conducted by PAL on January 22, 2014. The historic property consists of a historic farmstead located on a hill at the north side of a curve on Elwood Road in Londonderry. The main house faces northeast and is a two-and-a-half-story, two-by-five-bay, gable-front Italianate-style residence with field stone and concrete foundation, wood siding, and a standing seam metal roof with end returns that was likely constructed about 1870. A two-story, cross-gable ell with asphalt roof is located on the east side of the north elevation. The property includes about eight associated outbuildings, most of which appear to date to the mid- to late- twentieth century with the exception of a west-facing, two-story, gable-front slight-bank barn with manure basement that is likely contemporary to the main house. The farmstead is surrounded on all sides by fields with a corn maze situated on the west and an orchard on the south and east. The Project ROW passes southeast to northwest through the associated orchard and fields to the east of the property.

The inventory file review revealed that there are no properties that have been previously listed or determined eligible for listing within the study area. In evaluating the potential effects of the Project on the farmstead at Ellwood Orchard, PAL concluded that the Project would have no adverse effect because the view to and from the Project, which could be considered an element of the farm's historic setting, have already been compromised by the transmission line structures that already exist in the adjacent transmission ROW. Because the same conclusion would likely be reached for other potentially significant historic properties that have views of the project, if any exist, PAL recommended that no further historic architectural investigations are necessary to arrive at finding that the Project will not cause any effect on historic architectural resources. In a letter dated June 2, 2015 (**Attachment E**), Director and State Historic Preservation Officer Elizabeth Muzzey wrote to Frank Delguidice of the Regulatory Branch of the N.H. Division of the U.S. Army Corps of Engineers, that the

NHDHR concurred with PAL's conclusion that the Project has no potential to affect historic architectural resources.

10.2 Archaeological Resources

The existing PSNH ROW to be impacted by the Project previously underwent a Phase IA archaeological survey and New Hampshire Division of Historical Resources (NHDHR) project review for the PSNH 326 Line Thermal Uprate Project (Bunker and Charles 2011). On the basis of field observations and research results, no further archaeological survey was recommended and the project received a determination of no effect from NHDHR (R&C #4356).

A Request for Project Review for this Project was submitted to NHDHR on March 04, 2015. In response, NHDHR indicated that additional information was needed on the portion of the Project ROW that had not been previously surveyed. In addition, NHDHR indicated that there are previously identified archeological sites along portions of the Project ROW.

A combined Phase 1A-1B sensitivity assessment and intensive archeological investigation is planned along the Project ROW. Results of this survey will be provided to NHDHR in support of their final determination.

Refer to **Attachment E** for agency correspondence.

11.0 Alternatives Analysis

The Applicants considered a number of possible alternate means to connect the existing Tewksbury 22A Substation in Tewksbury, MA to the Scobie Pond 345 kV Substation in Londonderry, NH with a new 345 kV transmission line. As the terminal locations of the line are fixed, the Applicants performed an in-depth review of three alternative routes along existing infrastructure corridors during the selection process. The overhead portions for all of the alternatives are located adjacent to existing lines utilizing the available ROW to the greatest extent possible. As part of the routing analysis, the Applicants also considered the potential for an underground route along existing linear corridors (e.g., roadways, transmission line corridors). Underground construction was rejected due to: significantly higher costs; the potential for greater environmental impacts; the lack of underground land rights to bury transmission lines; safety concerns; and the likelihood of encountering large amounts of rock, some of which would have required blasting to be removed.

11.1 Technical and Economic Considerations

The preferred route, which has been selected and is the current route, is 24.4 miles in length, 17.9 miles of which are in New Hampshire. The first alternative (Western Alternative) would have been approximately 45.5 miles in length with approximately 18.3 miles in New Hampshire and would have required 88 acres of additional ROW (85 feet wide) to be

purchased. The second alternative (Eastern Alternative) would have been approximately 58 miles in length with approximately 26.7 miles in New Hampshire and would also have required the expansion of the existing ROW for virtually the entire 26.7 mile length in New Hampshire.

11.2 Environmental Considerations

Due to the significantly longer traverses and the need to acquire additional ROW for the Western and Eastern Alternatives, many more wetlands and surface water impacts were anticipated in order to construct a new 345 kV transmission line along these alternate routes. In addition, estimated costs of a longer transmission line combined with costs associated with additional property rights acquisition increased the cost differential between the two alternatives and the preferred route. Lastly, more and longer outages would be required to reconfigure circuits for construction of the alternatives in Massachusetts versus the preferred route.

The ISO New England Planning Advisory Committee (PAC) published the "Greater Boston Preferred Solution" in February 2015, which outlined a preferred suite of projects. MVRP is included in the solution because it is consistent with good utility practice and it will result in the fewest impacts to communities and resources in the region, while ensuring increased reliability and improvements to the system in the most cost-effective manner.

In summary, when environmental impacts and technical and economic considerations are considered together, the preferred route presents the least environmentally impacting practicable alternative for meeting the Project purpose and need.

12.0 Mitigation Measures

The Project has avoided and minimized permanent and temporary wetland impacts to the greatest extent feasible through design and construction methodology. The Project proposes **4,428** sq. ft. of direct permanent wetland impact and therefore no compensatory mitigation is required under Env-Wt 302.03. However direct and secondary impacts to wetlands, streams, riparian buffers and vernal pool buffers require mitigation. Mitigation ratios were applied in accordance with the *New England Army Corps of Engineers Mitigation Guidance* document and in coordination with the USEPA, USACE, and NHDES. A summary of Project impacts and mitigation burden are displayed in **Table 7** below.

Table 7: Summary of Total Project Jurisdictional Impact and Mitigation Burden

Town	Permanent Wetland/ Stream Impacts (ac)	Temporary Wetland/ Stream Impacts (ac)	Secondary Wetland Impacts (ac)	Vernal Pool Buffer Impacts (ac)	Riparian Buffer Impacts (ac)	Total Impacts (ac)	Mitigated Impacts (ac)
Pelham	0.086	3.674	0.422	0.211	0.143	4.536	0.387
Windham	0.006	0.161	0.042	0.061	0.183	0.453	0.057
Hudson	0.003	0.706	2.795	2.090	2.130	7.724	1.097
Londonderry	0.007	4.386	7.617	5.267	2.066	19.343	2.472
Total:	**0.102**	**8.927**	**10.876**	**7.629**	**4.522**	**32.056**	**4.013**

The Project proposes mitigation in the form of in-kind mitigation and/or an In-Lieu Fee contribution to the NHDES Aquatic Resource Mitigation Fund. Requests for potential in-kind mitigation projects have been made to each of the impacted towns as well as regional land trusts and conservation groups. To date, Pelham and Londonderry have requested upland buffer mitigation projects that are being evaluated by the Applicants. Windham has responded that they were unable to identify a suitable in-kind mitigation projects. Hudson did not respond to requests for potential in-kind mitigation projects. NEP and PSNH will continue to develop a mitigation package that will be acceptable to NHDES, USEPA, and USACE. A Preliminary Mitigation Agreement is included as **Attachment I**.

Apart from in-kind mitigation discussed above, general BMPs will be implemented during Project construction including the use of established accessways and temporary construction matting, use of erosion and sediment controls, restoration of temporarily disturbed wetlands, and invasive species management. Each of these are discussed below.

12.1 Use of Existing Accessways and Construction Mats

Construction and forestry crews will use public roads intersecting the Project ROW and other established access points to enter the transmission corridor. Proposed accessways within the ROW follow existing accessways as much as possible. The use of existing dirt and gravel accessways that have previously impacted wetlands will minimize impacts associated with equipment travel through wetlands.

Where wetlands and/or streams must be crossed to gain access to an existing or proposed structure location, wooden swamp mats may be installed to create a solid travelling surface. Mats will be positioned in the narrow portion of the wetlands or across previously disturbed portions of wetland areas. Smaller perennial or intermittent stream channels located along the Project ROW that cannot be avoided may be spanned (from beyond its jurisdictional banks) using mats. The use of swamp mats reduces the impact of driving heavy equipment through saturated wetland soils by dispersing the equipment weight, preventing the formation of ruts, and preventing conditions that are conducive to soil erosion. If frozen, snow-covered, or dry ground conditions are present, mats may not be necessary.

12.2 Erosion and Sediment Control and Wetland Restoration

Erosion and sediment controls will be used during construction. Prior to accessing the Project ROW, crews will install erosion and sediment control barriers in accordance with NHDES, NHDRED, and NEP and/or PSNH guidance manuals and as dictated by site conditions. Selected BMPs may include straw wattles, silt fence, wood chip/compost berms/tubes and/or other approved BMPs. A sufficient supply of these materials will be kept nearby to facilitate repair or replacement of barriers. Erosion controls will be inspected and maintained throughout the duration of Project activities and will not be removed until Project work is complete and the Project Area is stabilized in accordance with NHDES *Chapter Wt 303.04 (af).*

Due to the timing of the Project and measures being taken to minimize impacts, it is anticipated that minimal restoration will be needed and that natural re-colonization of wetlands within the Project ROW will occur during spring/summer vegetative growth periods. VHB will revisit the ROW during this time period to assure restoration. If necessary, an approved wetland seed mix outlined in NHDES guidance manuals, such as New England Wet-Mix or New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites or equivalent/readily available seed mixes), will be applied to any areas where cover is slow to develop. Additionally, straw or weed-free hay will be applied in conjunction with seed.

12.3 Invasive Species Management Plan

At present, existing invasive species within the Project ROW include purple loosestrife, glossy buckthorn, and Japanese Honeysuckle (*Lonicera japonica*). During construction, contractors will be required to deliver clean equipment to the Project ROW. Machinery entering and leaving any area containing invasive plants along the Project ROW will be inspected for foreign plant matter (stems, flowers, roots, etc.) and soil embedded in the tracks or wheels. If foreign plant matter/soil is present, the operator will remove the plant material and soil from the machine using hand tools.

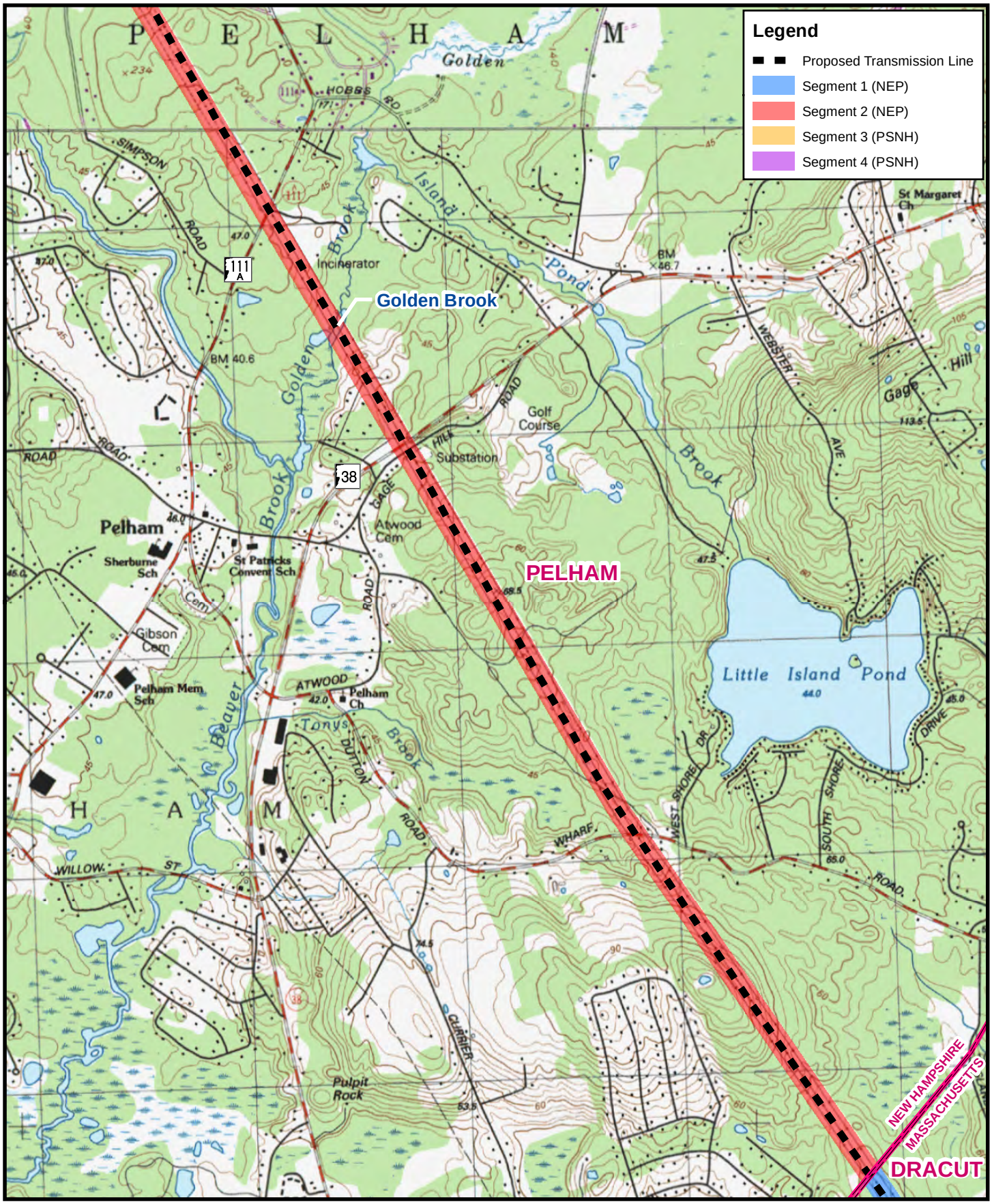
Mats will also be cleaned before transporting them on-site or relocating them from one area of the ROW to another. Compressed air or water is typically used as a cleaning agent to remove seeds or root matter from mats.

13.0 Shoreland Water Quality Protection Act

Shoreland Permits are required by NHDES for projects within the protected shoreland (250 feet from the reference line of a jurisdictional river or stream) that involve new construction or construction that modifies the footprint of existing impervious surfaces using mechanized

equipment to either excavate or fill the ground. Beaver Brook is the only surface water jurisdictional under the SWQPA RSA 483-B along the Project ROW. The Protected Shoreland Zone of Beaver Brook intersects the Project ROW in two locations; once in Pelham and once at the Windham/Hudson town line. Beaver Brook does intersect the Project ROW a third time to the south of the Scobie Pond 345 kV Substation in Londonderry. At this location the brook is classified as a 2nd order stream and is not subject to SWQPA jurisdiction. A Shoreland Permit Application has been prepared and submitted to NHDES Shoreland Program to address proposed impacts within the protected shoreland of Beaver Brook.

Figures



Scale:
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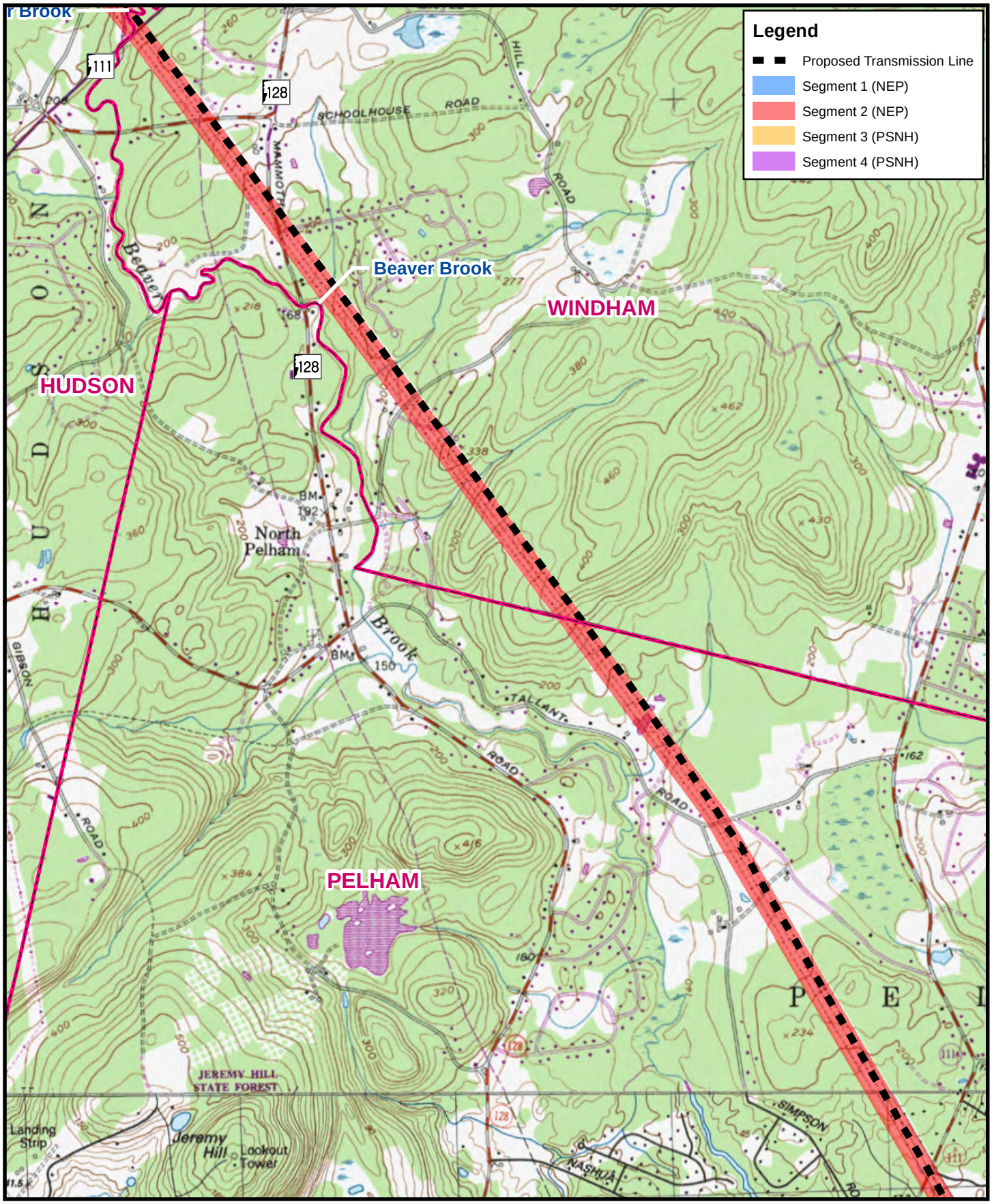
1 inch = 2,000 feet

Figure 1 - USGS Project Location Map
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH



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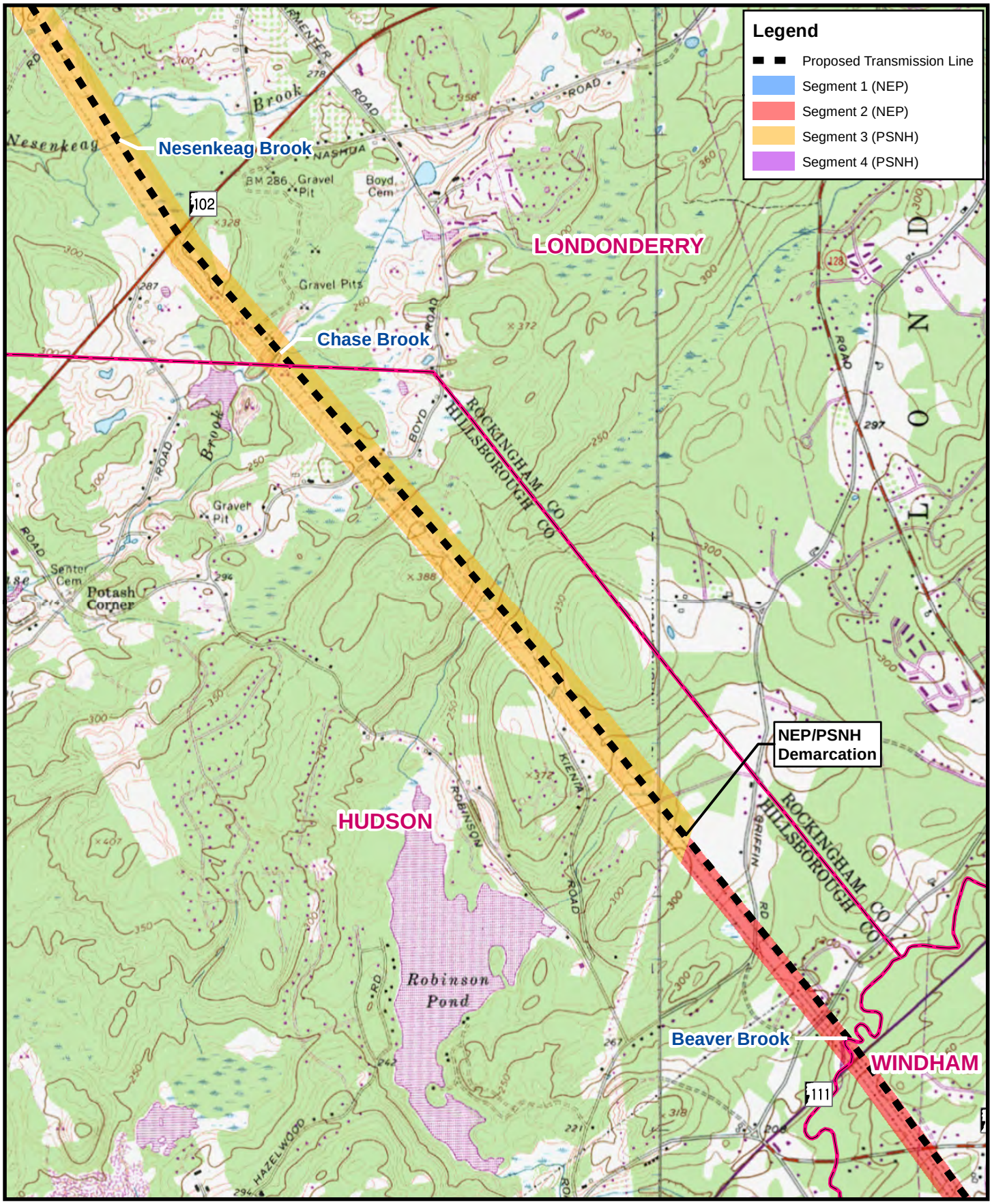

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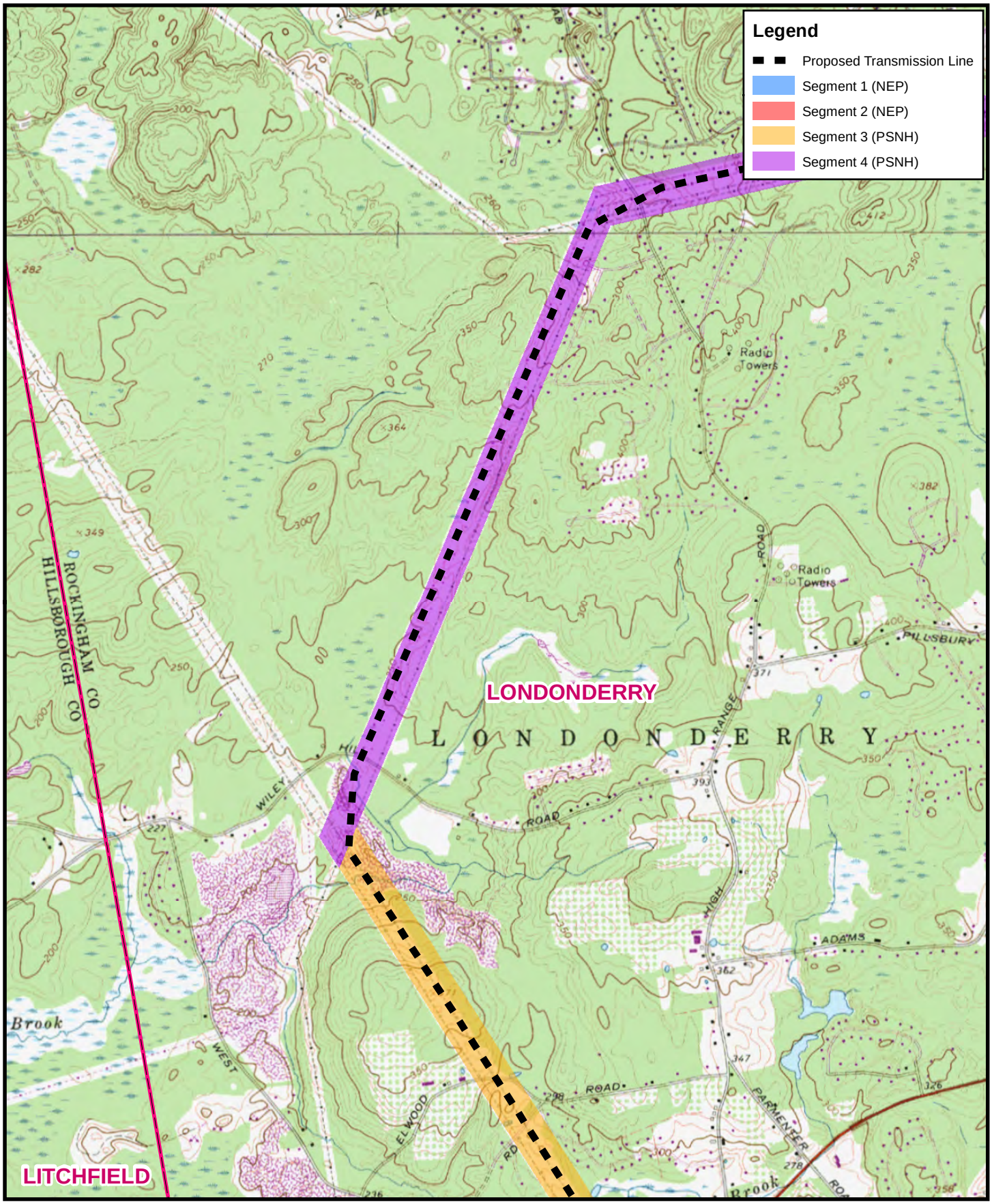

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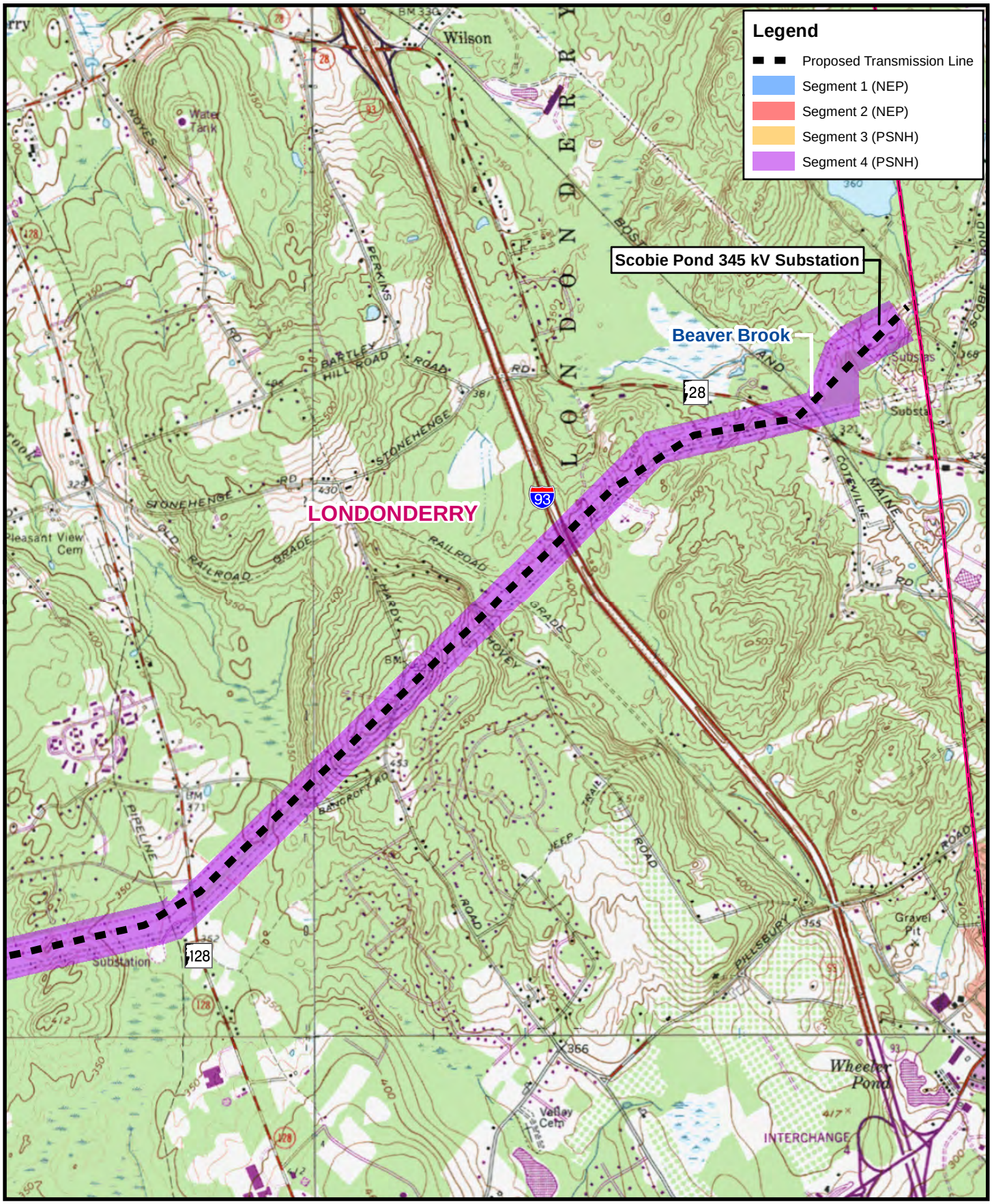

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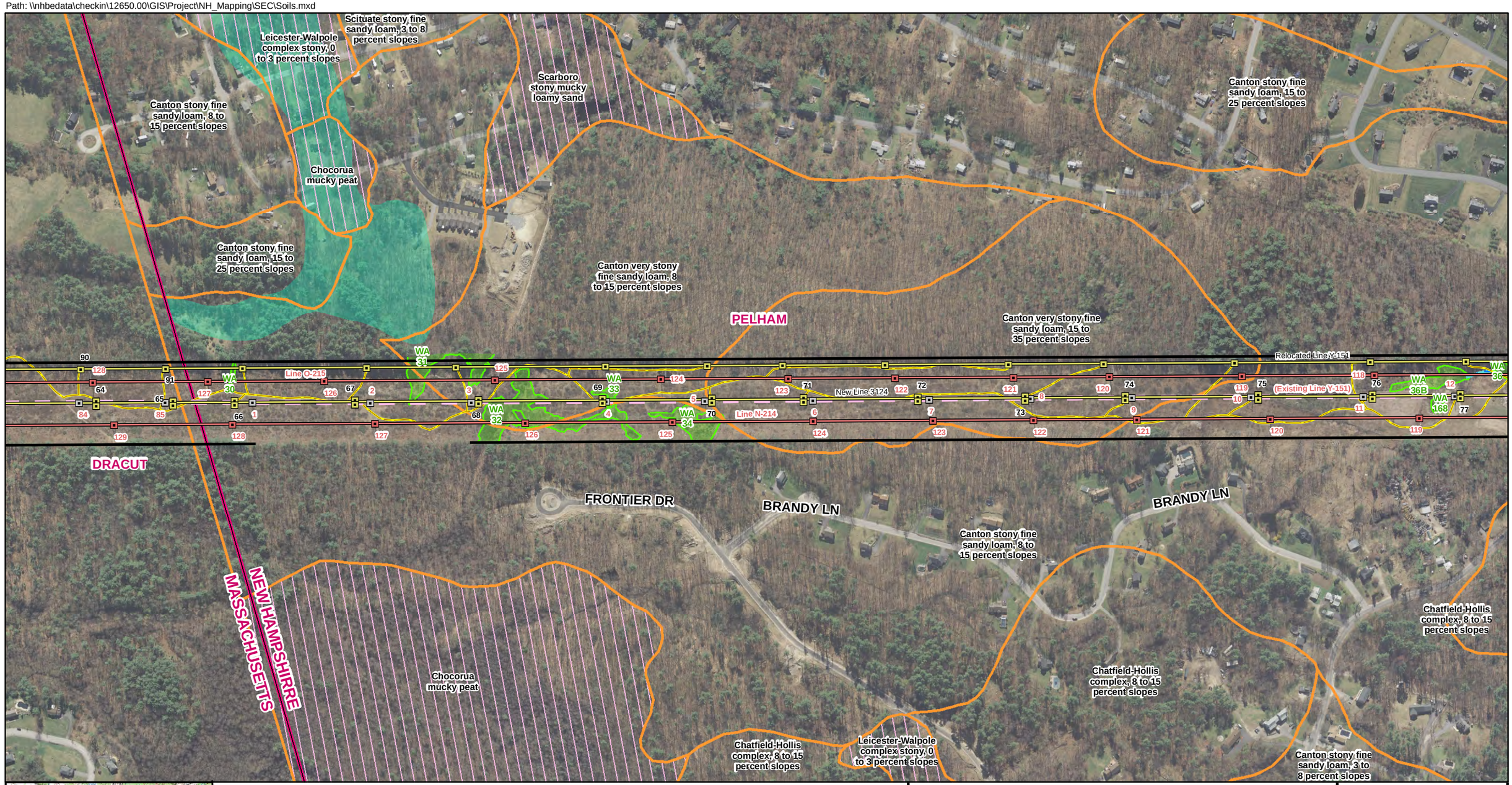

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- Proposed Structure
- Existing Transmission Line
- Existing Line to be Removed
- Proposed Transmission Line
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- Primary Access
- Alternate Access
- Wetland Edge
- Estimated Wetland Edge
- Wetland Resource Area
- Open Water
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ordinary High Water
- USGS Stream
- NRCS Soil Boundary
- Hydric Soil
- FEMA 100-yr Floodplain
- Town Boundaries

1 Inch = 400 Feet

0 200 400 800

Feet

Figure 2 - NRCS Soils
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB
Beals & Thomas,EVERSOURCE,Normandeau

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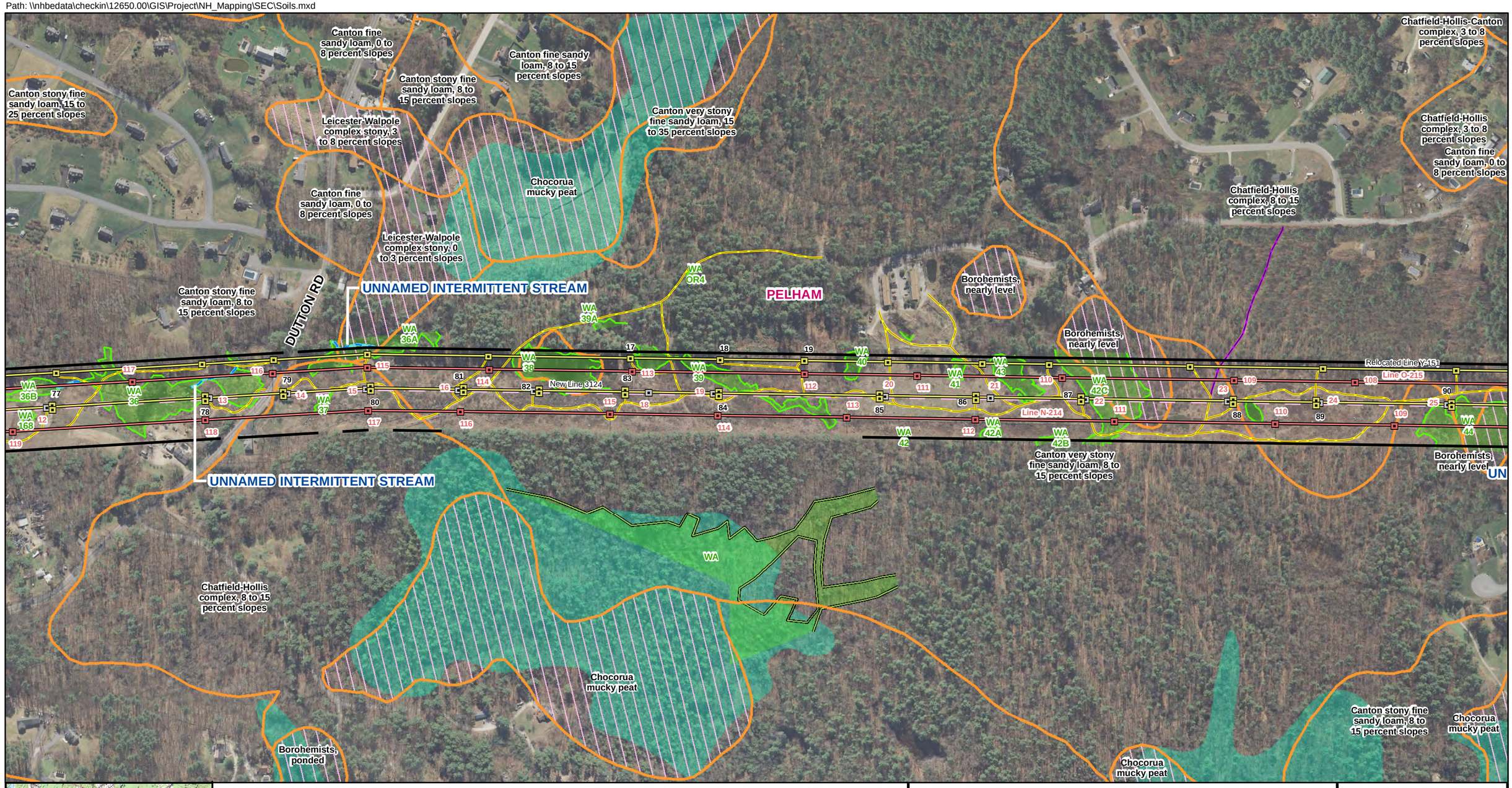

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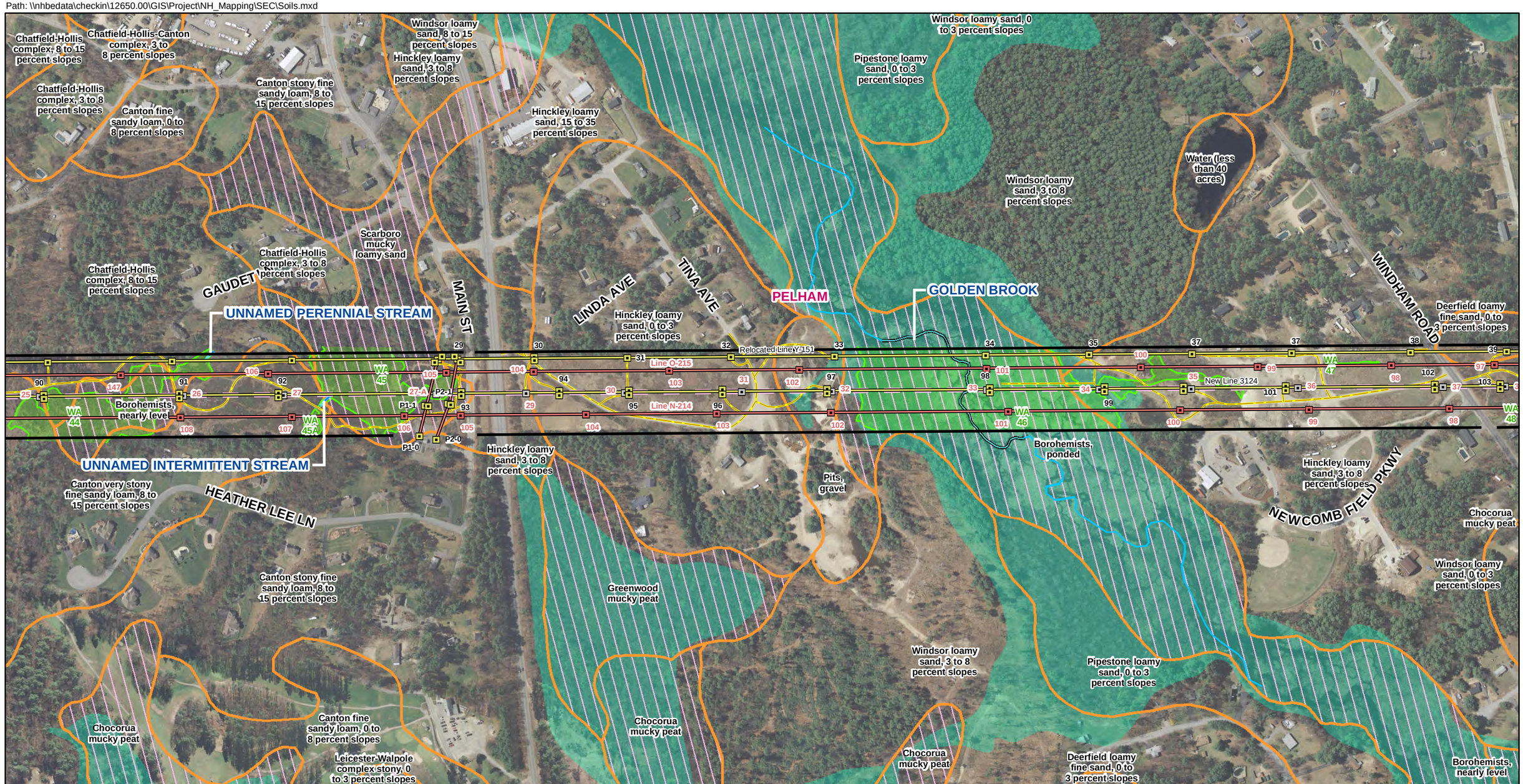

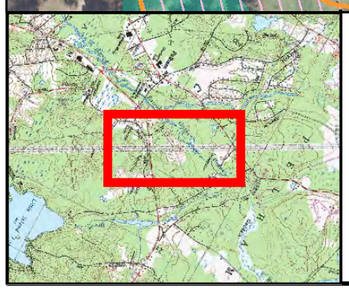

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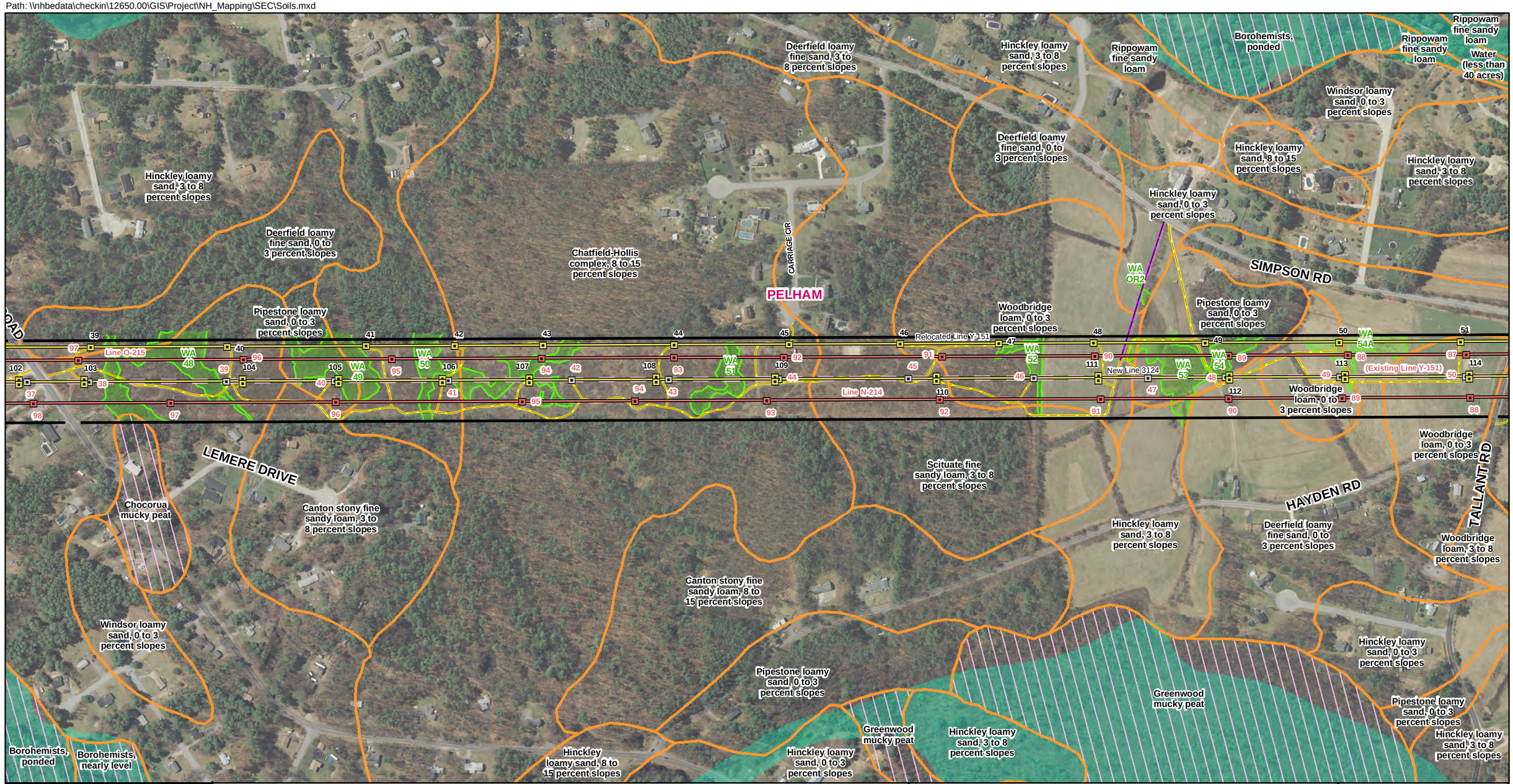

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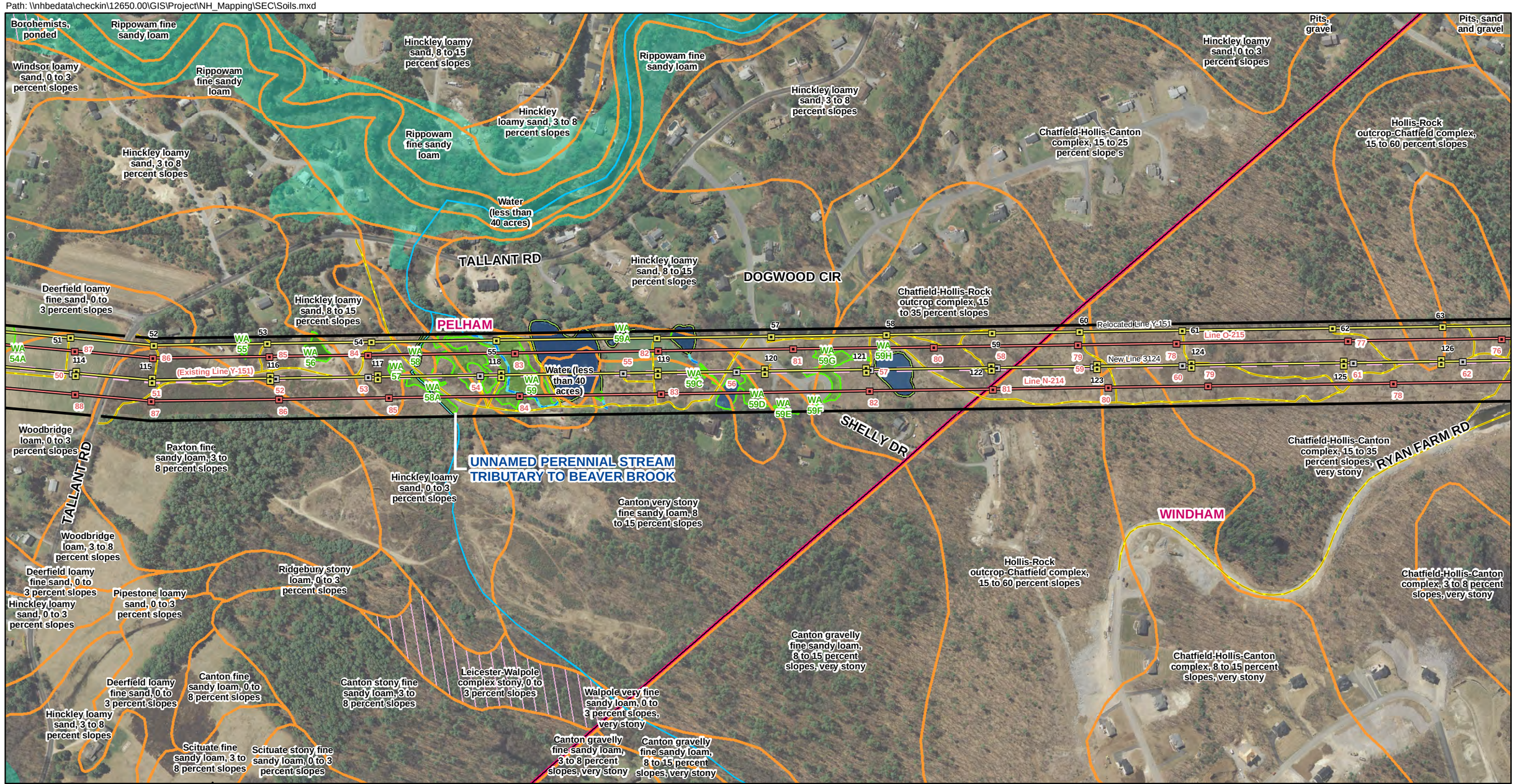

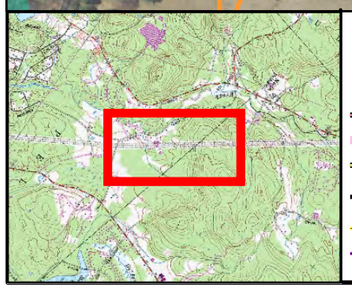

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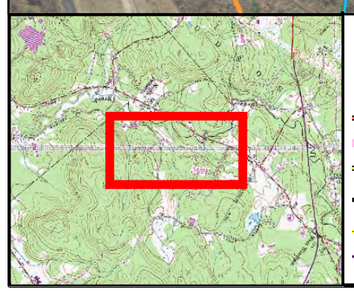
PELHAM
Chatfield-Hollis-Canton complex, 15 to 35 percent slopes, very stony
Pits, sand and gravel
Walpole very fine sandy loam, 0 to 3 percent slopes, very stony
Hinckley loamy sand, 3 to 8 percent slopes
Rippowam fine sandy loam
Chocorua mucky peat
Pootatuck fine sandy loam
Scarboro muck
Hinckley loamy sand, 3 to 8 percent slopes
Windsor loamy sand, 8 to 15 percent slopes
Canton gravelly fine sandy loam, 3 to 8 percent slopes, very stony
Water (less than 40 acres)
PELHAM
Hollis-Rock outcrop-Chatfield complex, 15 to 60 percent slopes
Hollis-Rock outcrop-Chatfield complex, 15 to 60 percent slopes
Hinckley loamy sand, 0 to 3 percent slopes
Pipestone loamy sand, 0 to 3 percent slopes
VER BROOK
Pootatuck fine sandy loam
CASTLE HILL RD
Chatfield-Hollis-Canton complex, 3 to 8 percent slopes, very stony
UNNAMED PERENNIAL STREAM TRIBUTARY TO OOK
Hinckley fine sandy loam, 8 to 15 percent slopes
MAMMOTH RD
PLEASANT ST
Hinckley fine sandy loam, 3 to 8 percent slopes
Relocated Line Y-151
New Line 3124
Line O-215
(Existing Line Y-151)
Line N-214
WA 60
WA 61
WA 62
WA 63
WA 64
WA 65
WA 66
WA 67
WA 67A
WA 68
WA 68A
FARM RD
Chatfield-Hollis-Canton complex, 15 to 35 percent slopes, very stony
WINDHAM
UNNAMED PERENNIAL STREAM TRIBUTARY TO BEAVER BROOK
WINTER ST
AUTUMN ST
Pipestone sand, 0 to 5 percent slopes
GLANCE RD
Hinckley fine sandy loam, 8 to 15 percent slopes
Pits, sand and gravel
Chatfield-Hollis-Canton complex, 8 to 15 percent slopes, very stony
Chatfield-Hollis-Canton complex, 15 to 35 percent slopes, very stony
Chocorua mucky peat
Chatfield-Hollis-Canton complex, 3 to 8 percent slopes, very stony
Walpole very fine sandy loam, 0 to 3 percent slopes, very stony
Chatfield-Hollis-Canton complex, 3 to 8 percent slopes, very stony
Chatfield-Hollis-Canton complex, 8 to 15 percent slopes, very stony
Chatfield-Hollis-Canton complex, 8 to 15 percent slopes, very stony



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1 Inch = 400 Feet
0 200 400 800
Feet

Figure 2 - NRCS Soils
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB
Beals & Thomas,EVERSOURCE,Normandeau

Date: 5/29/2015

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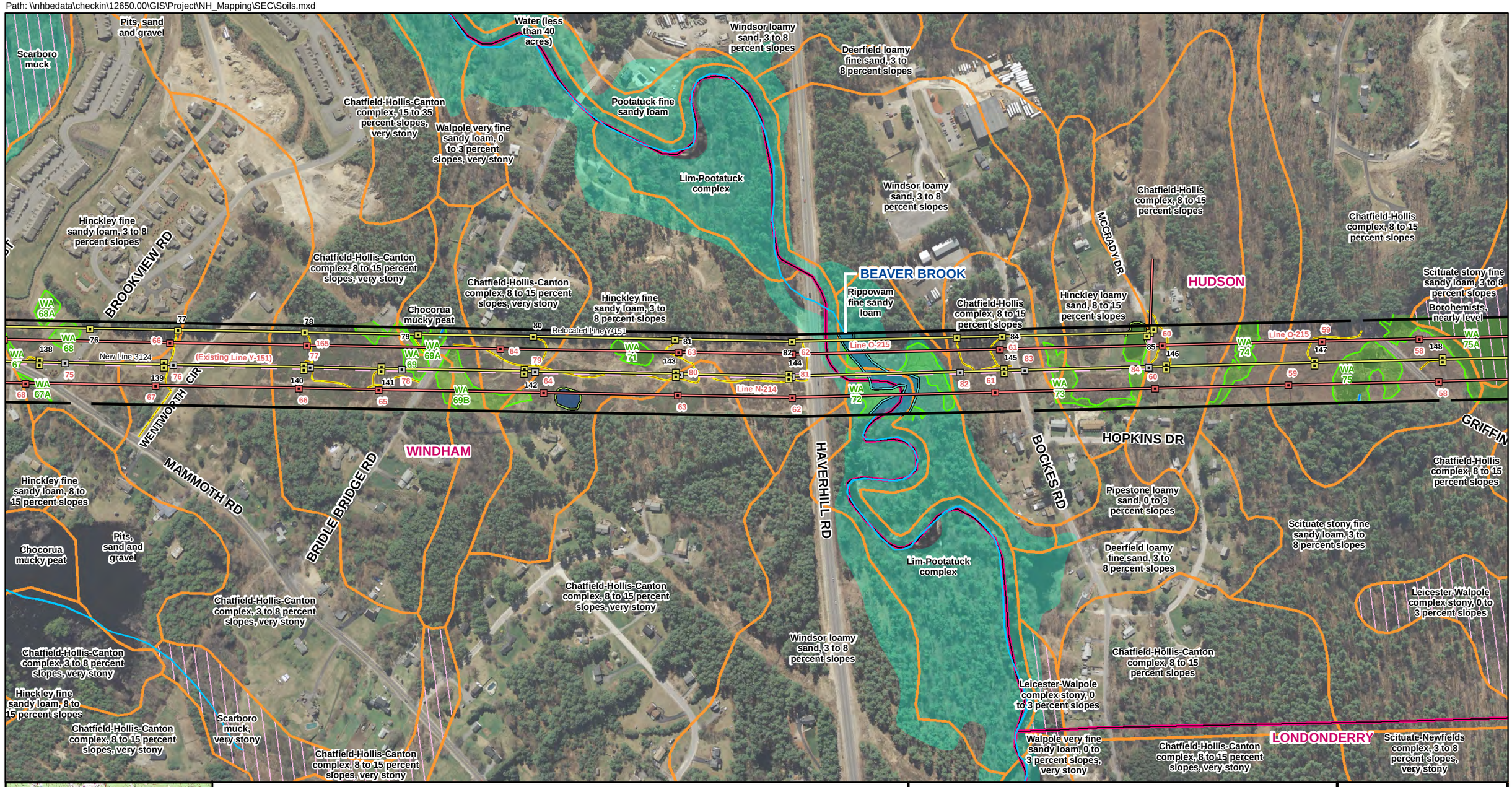

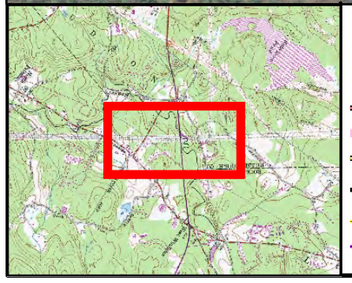

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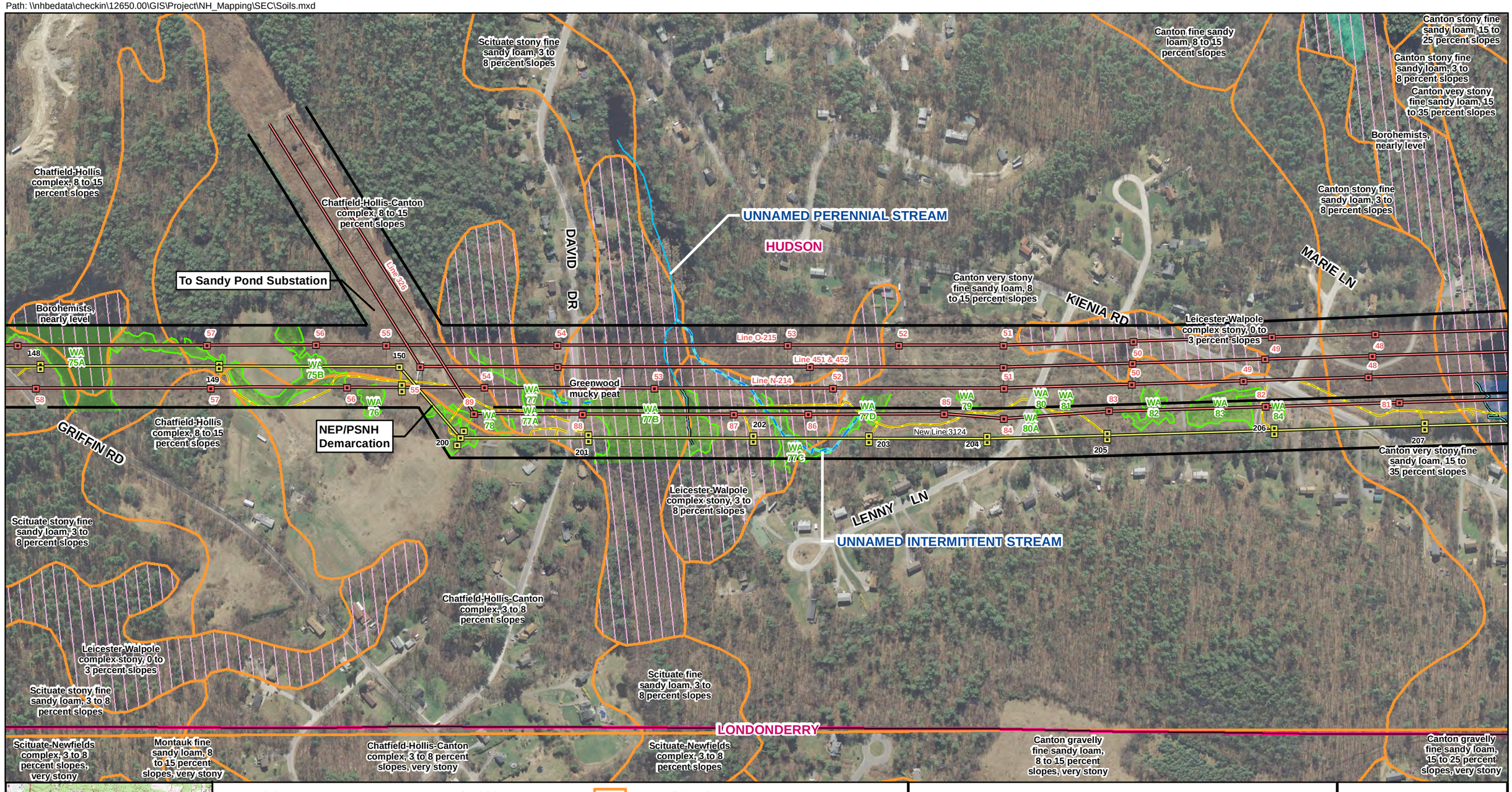

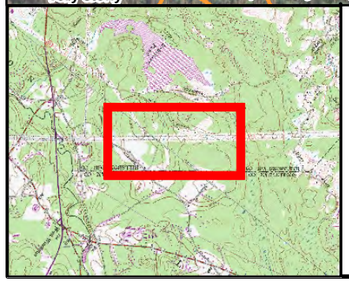

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Figure 2 - NRCS Soils
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Date: 7/6/2015

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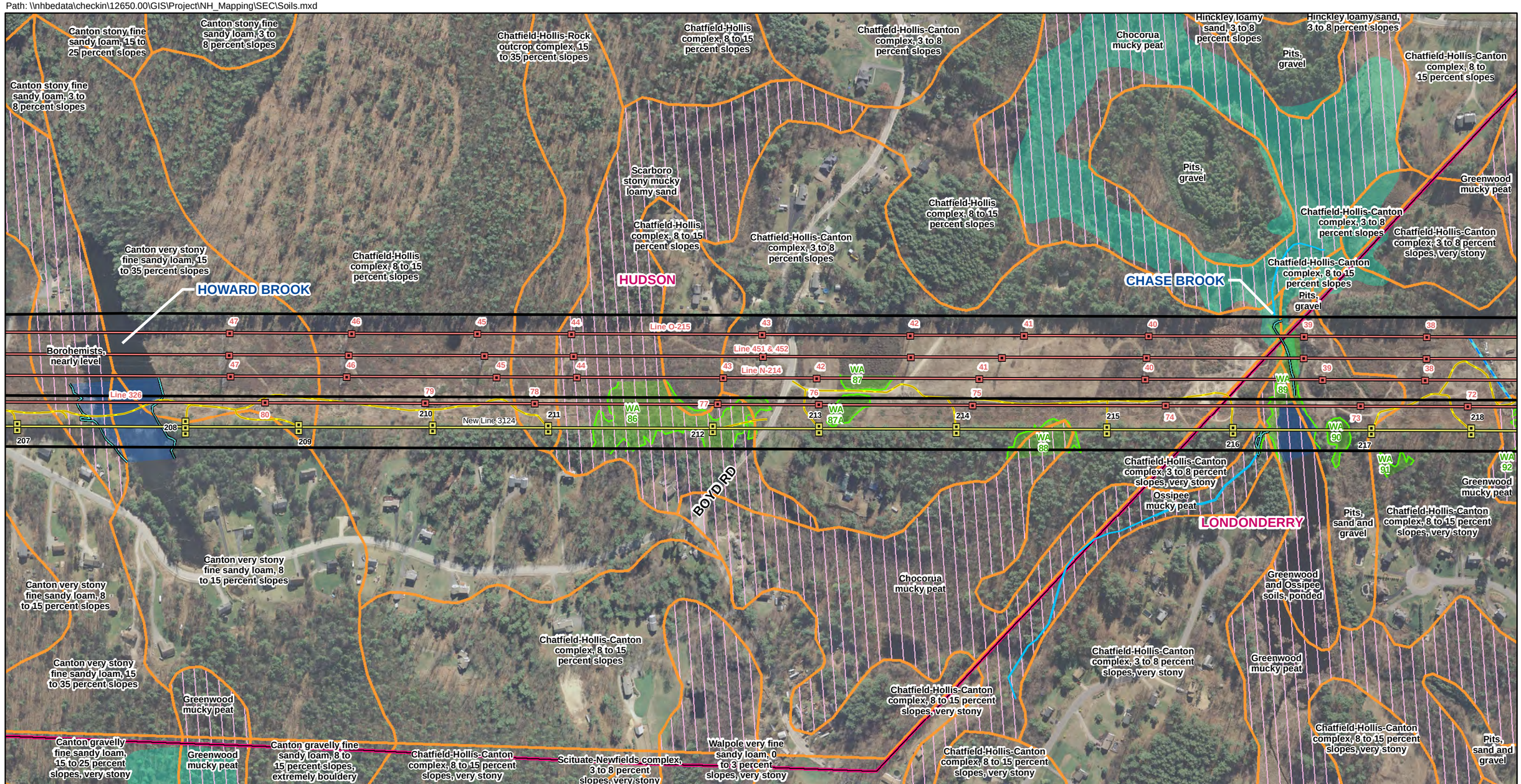

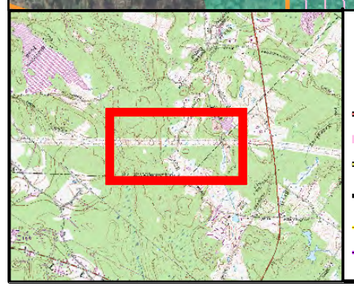

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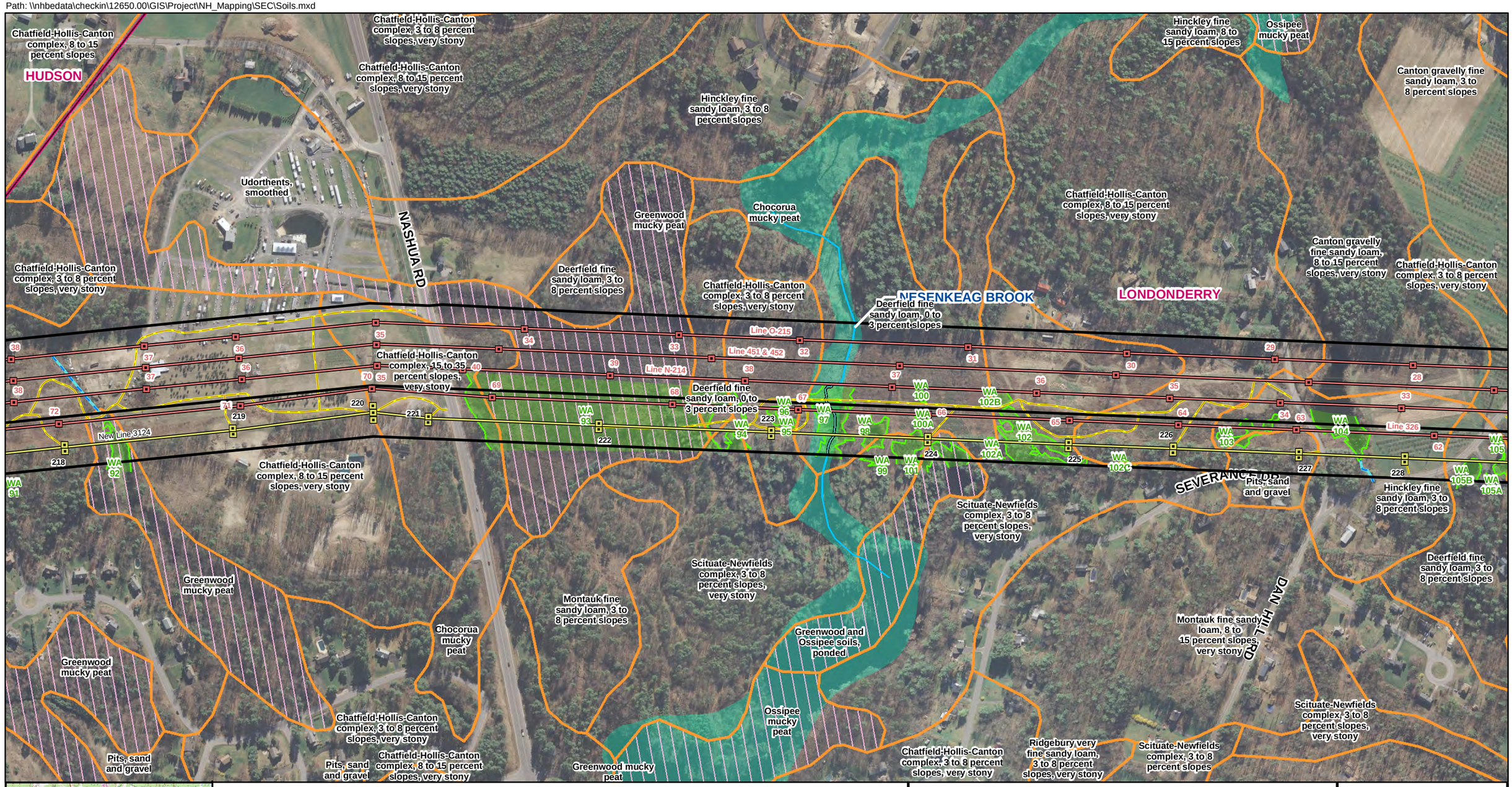

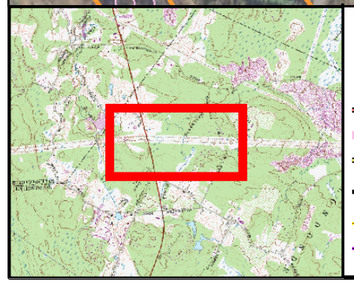

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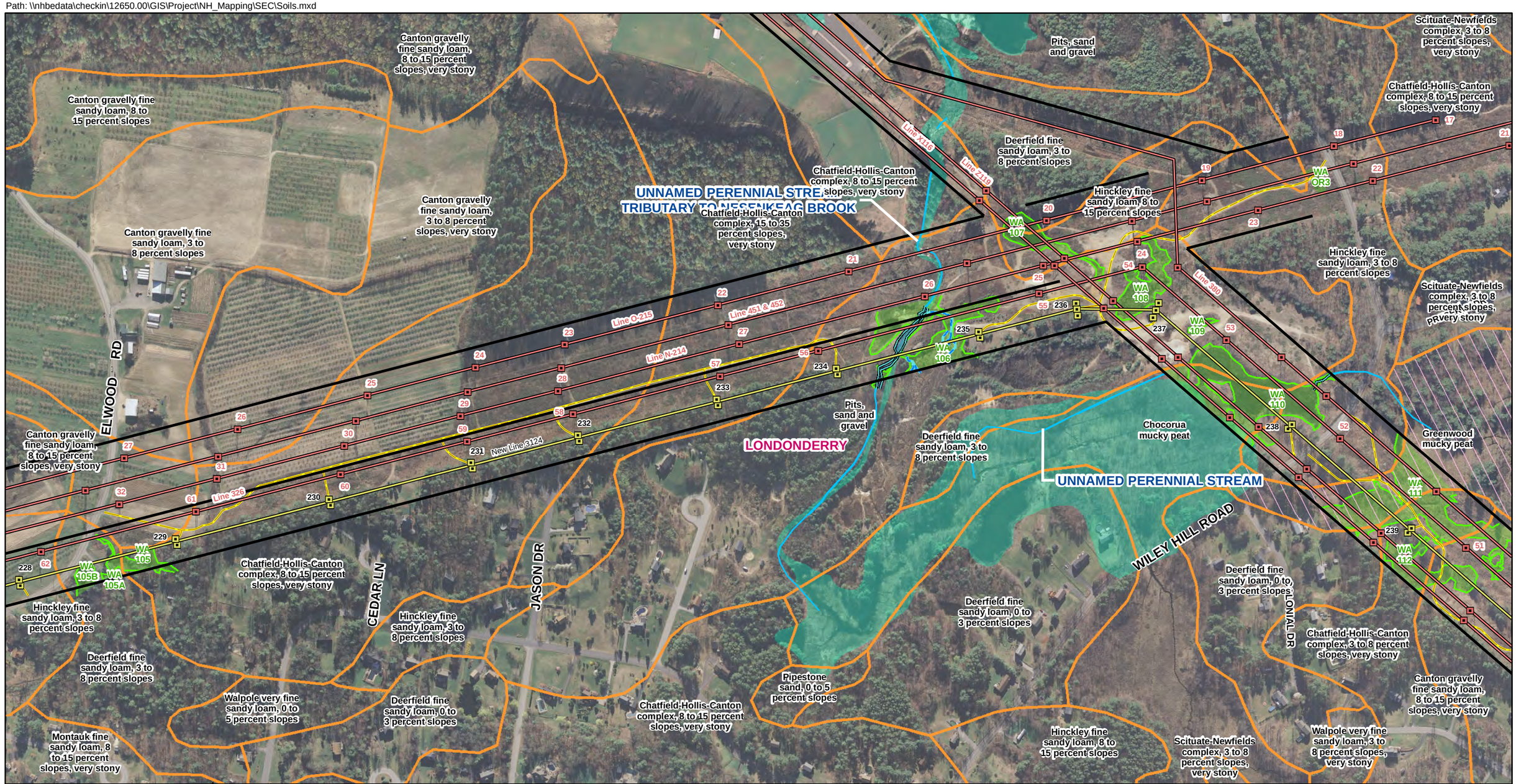

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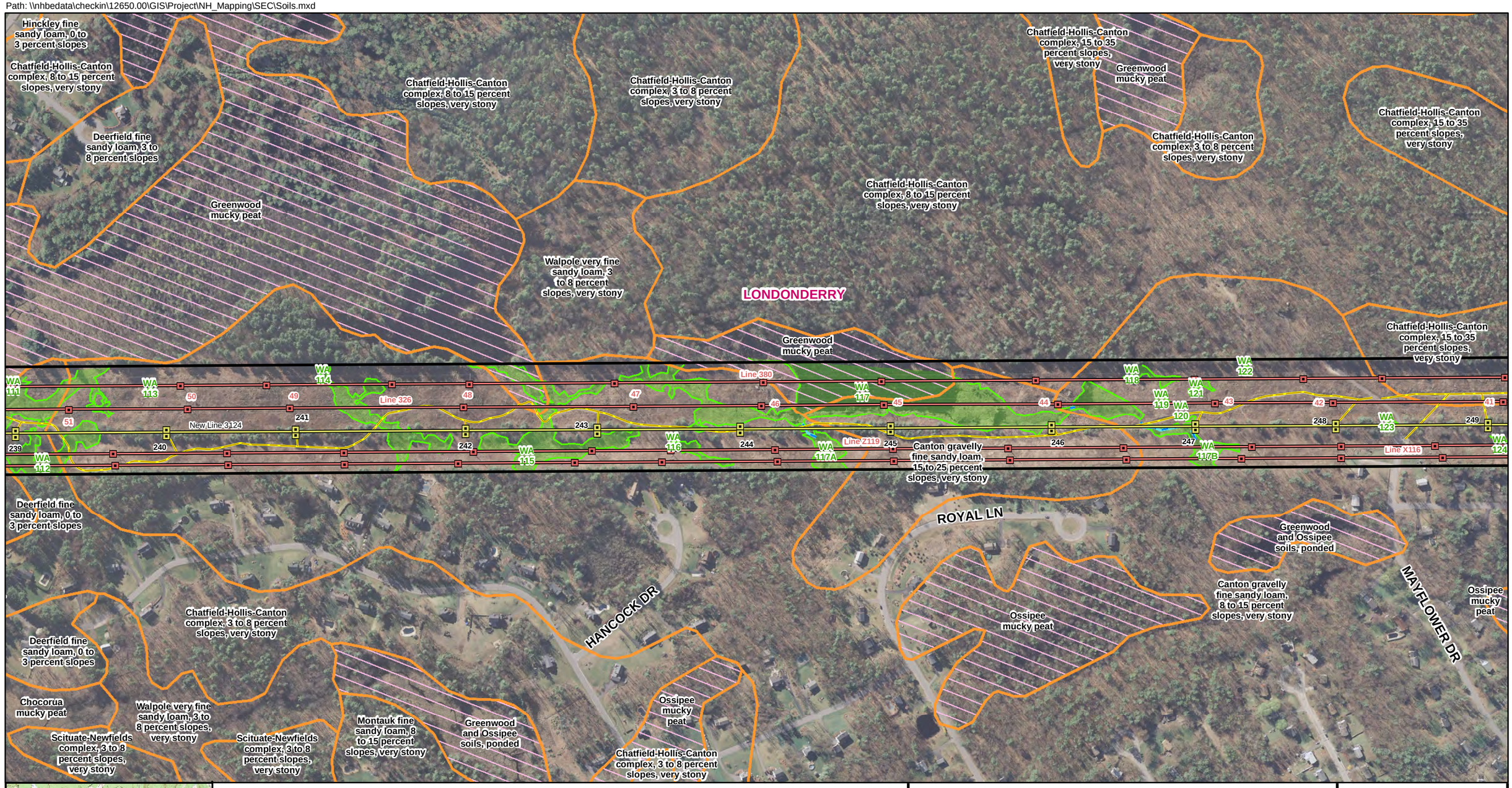

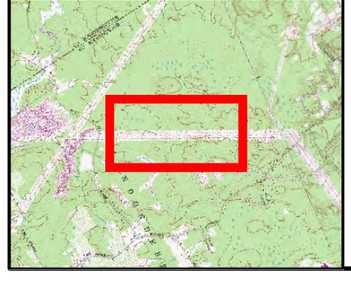

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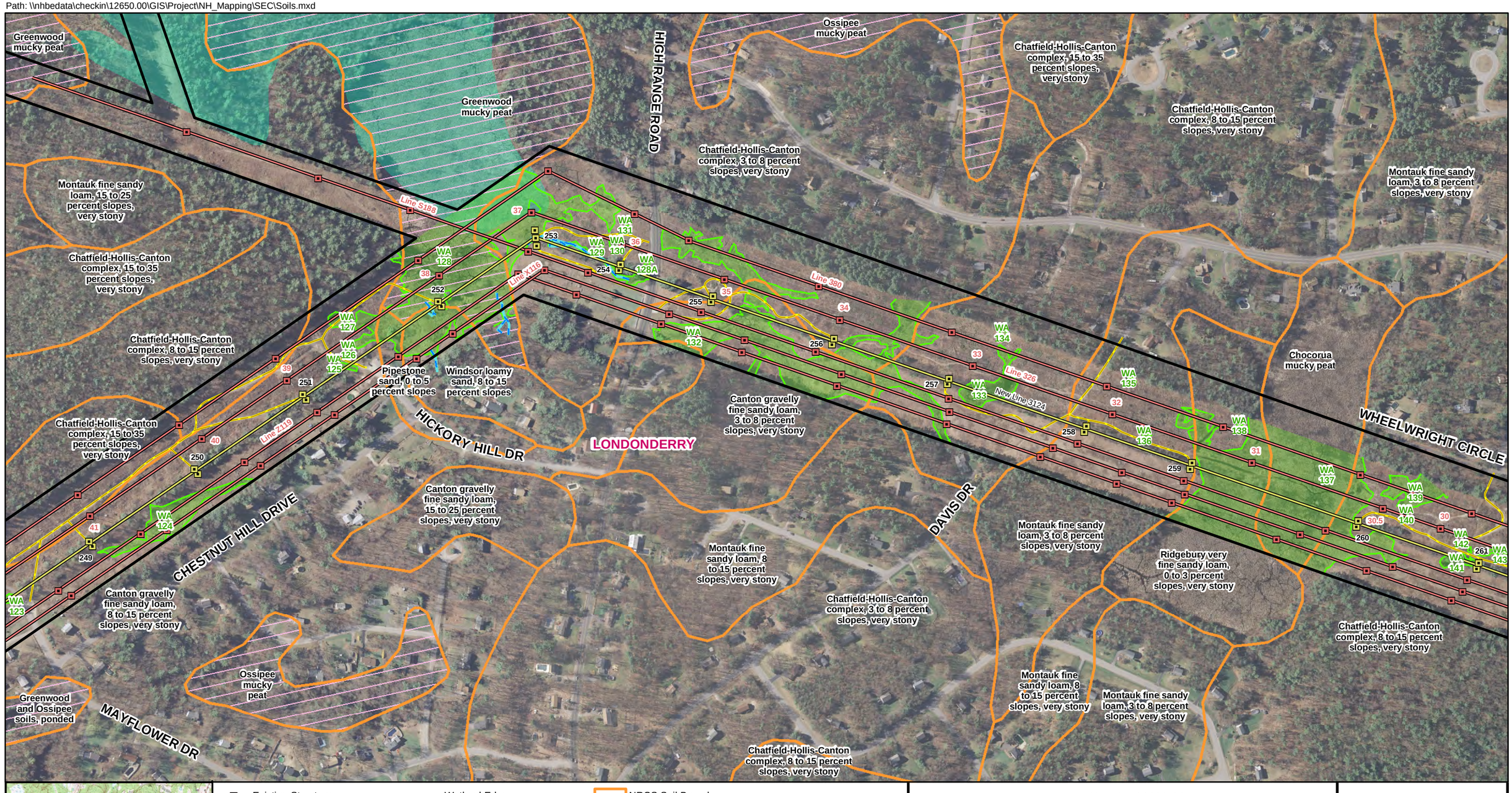

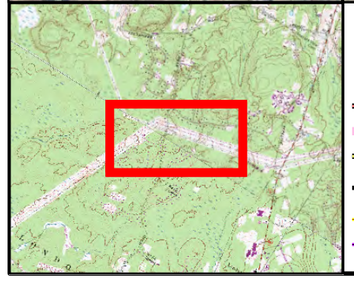

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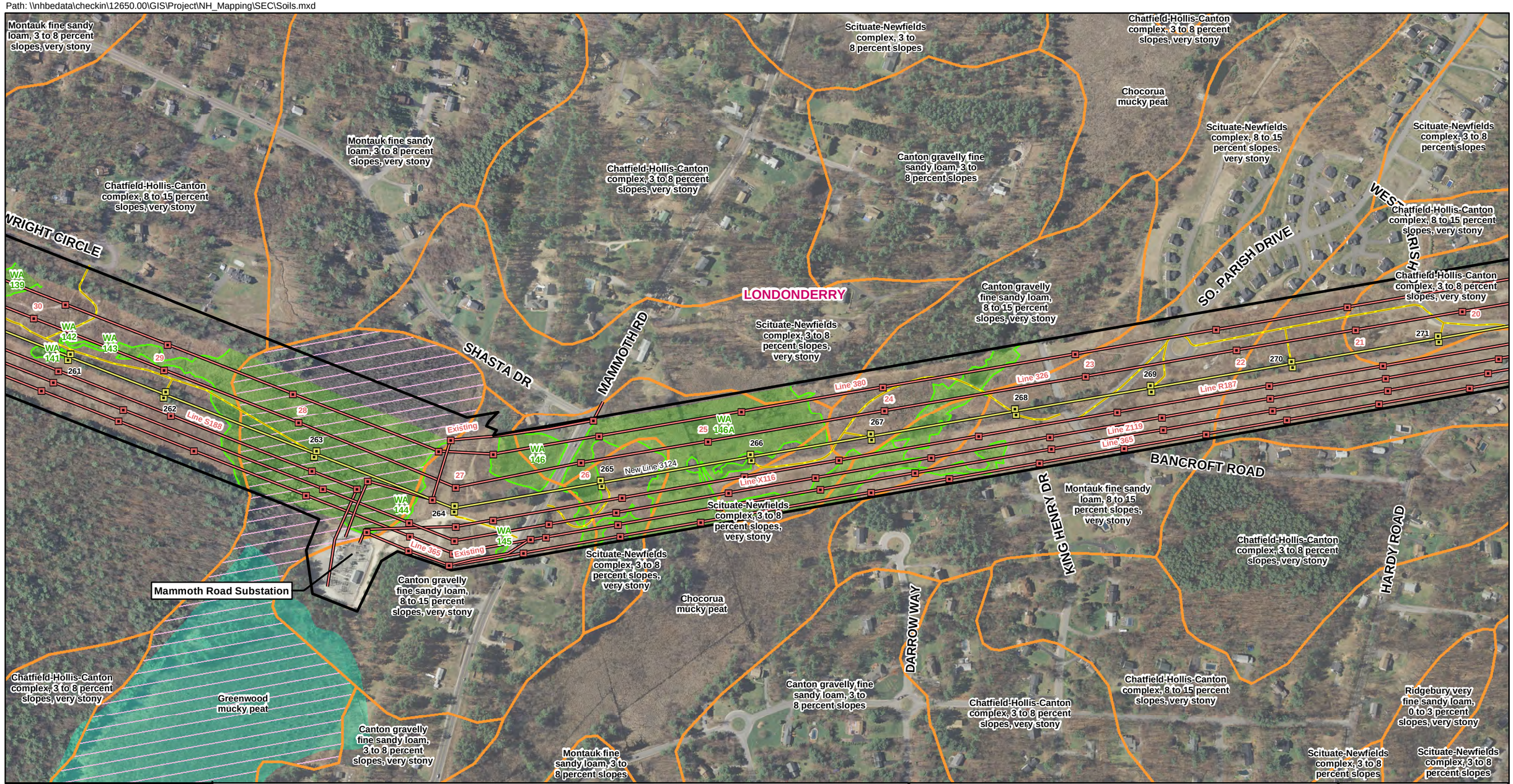

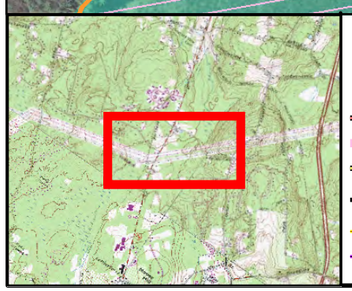

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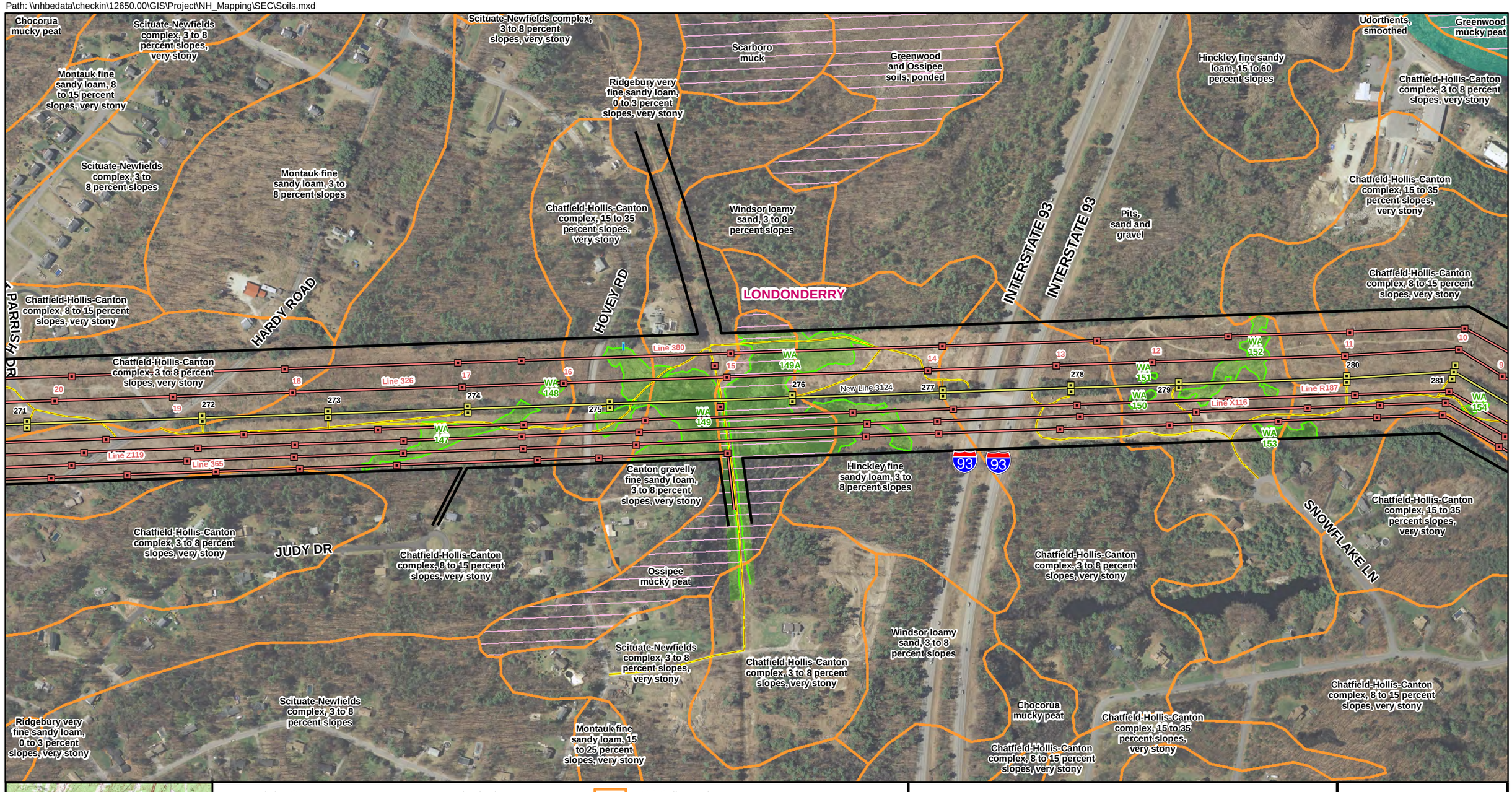

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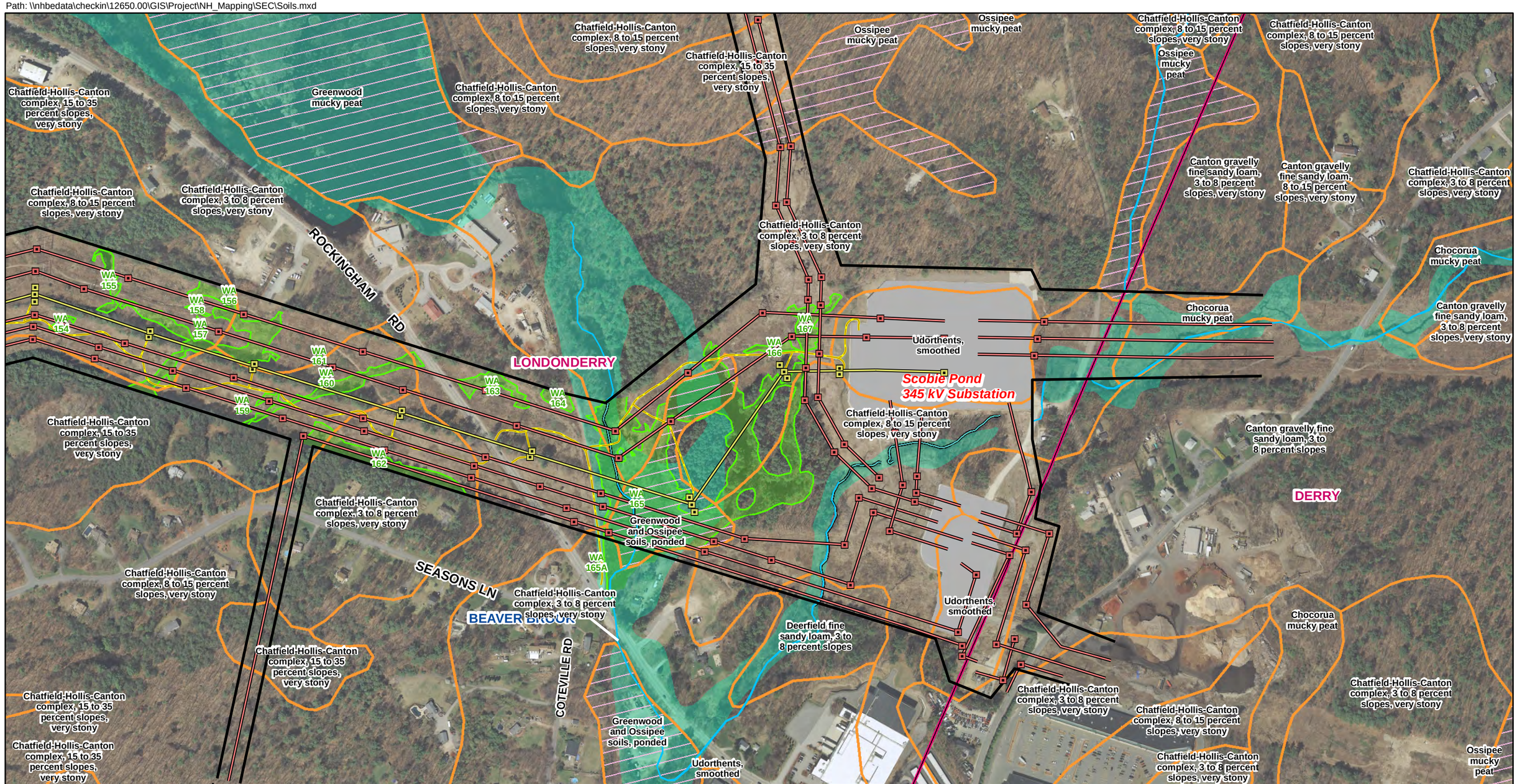

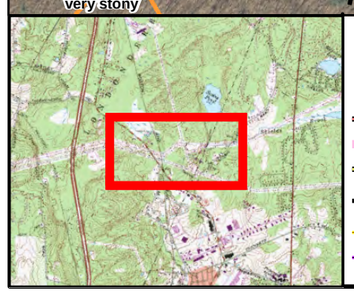

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Figure 3: FEMA Floodplain
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

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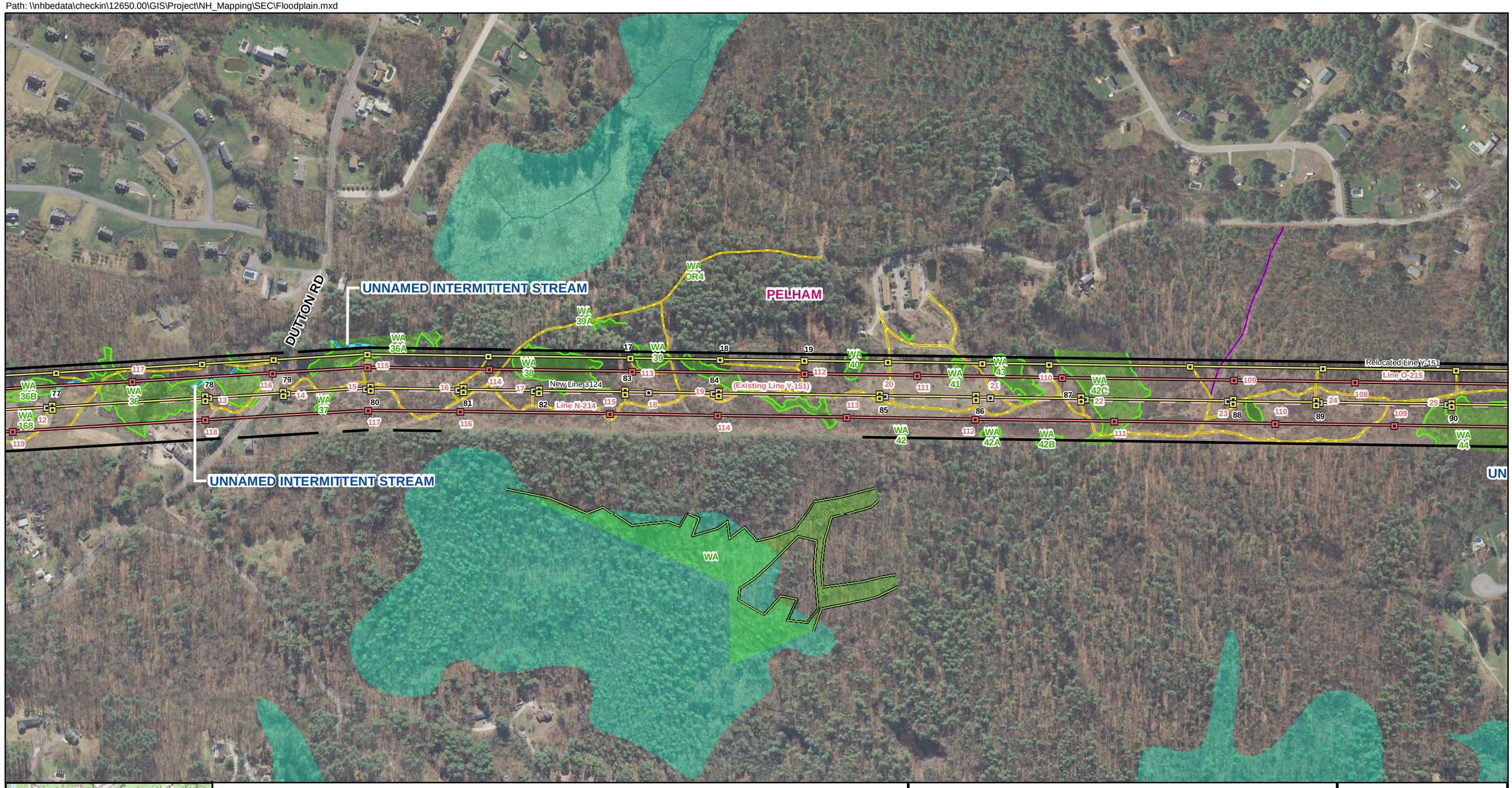

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Figure 3: FEMA Floodplain
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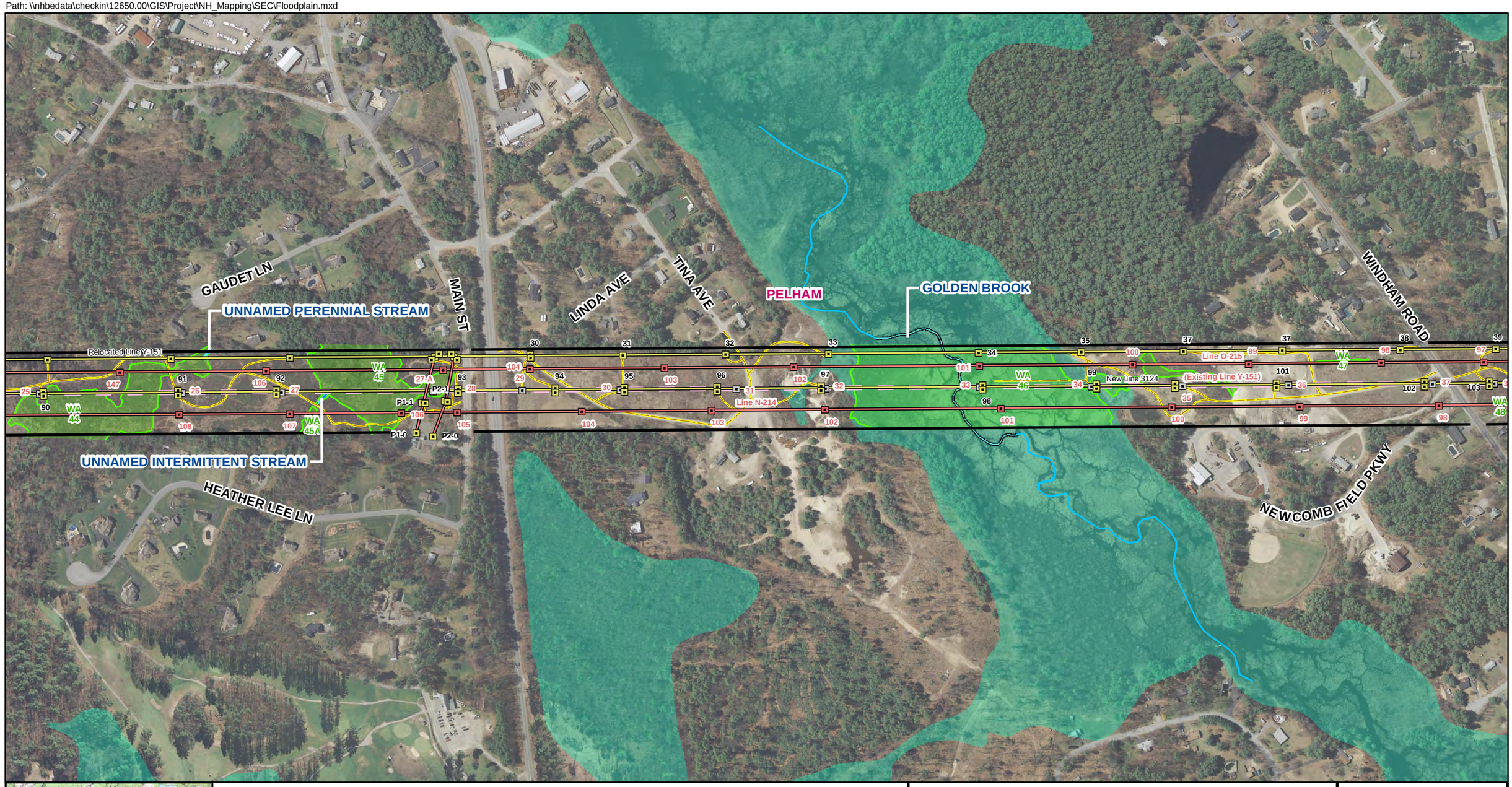

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Figure 3: FEMA Floodplain
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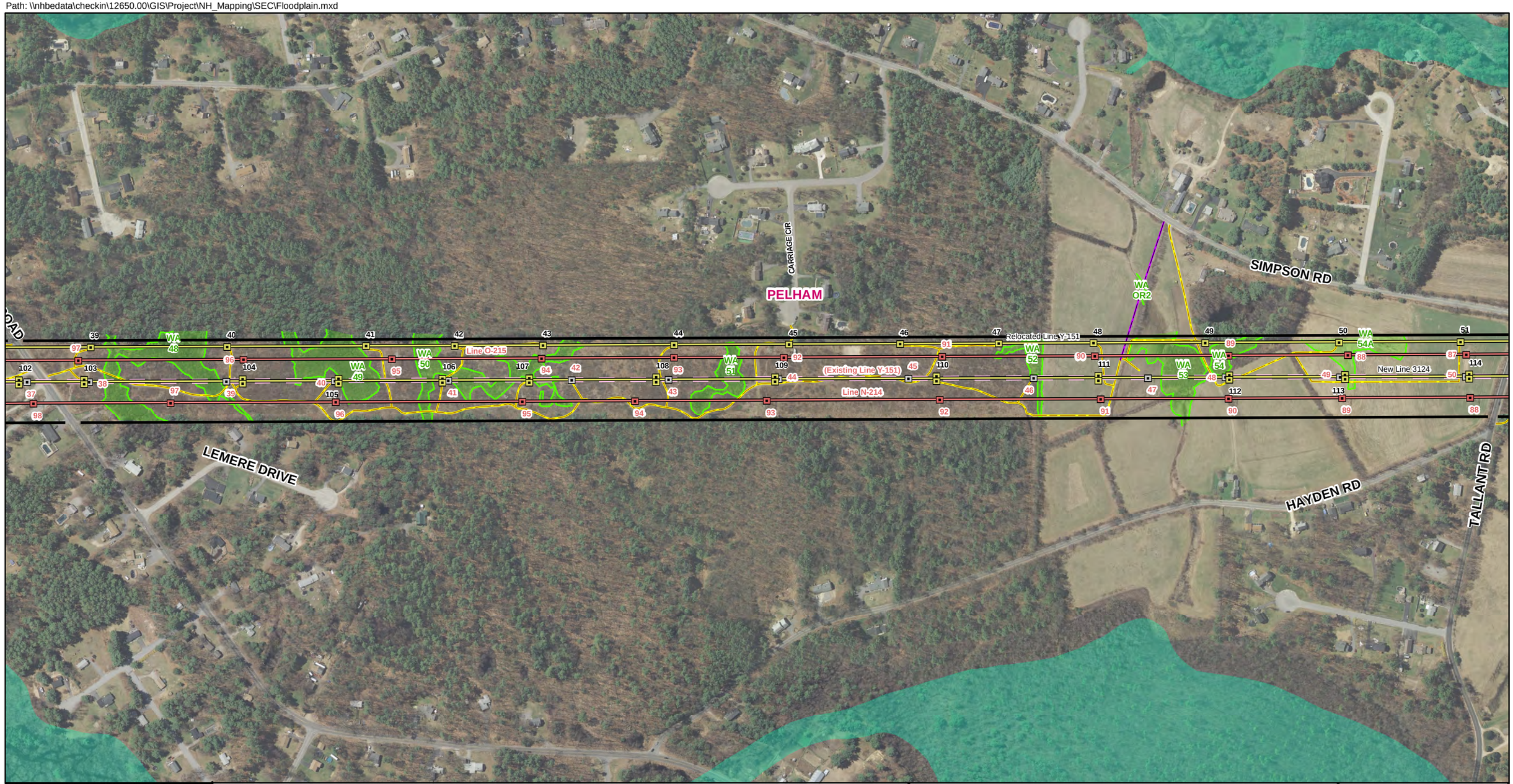

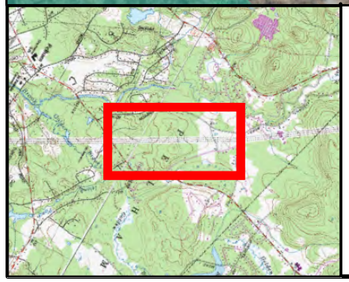

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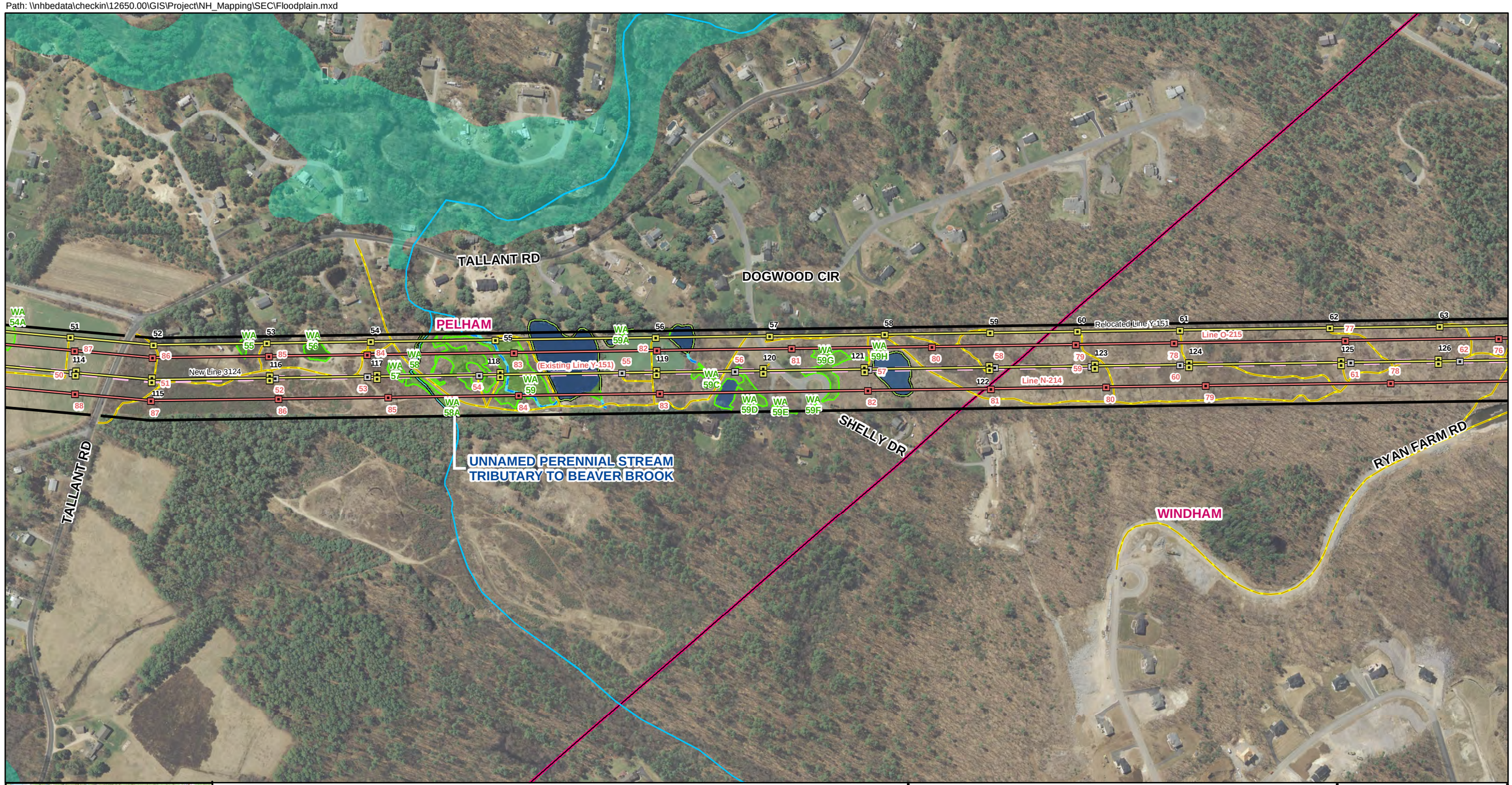

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- USGS Stream
- FEMA 100-yr Floodplain
- Town Boundaries

1 Inch = 400 Feet

0 200 400 800

Feet

Figure 3: FEMA Floodplain
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB
Beals & Thomas,EVERSOURCE,Normandeau

Date: 5/29/2015

nationalgrid

EVERSOURCE ENERGY

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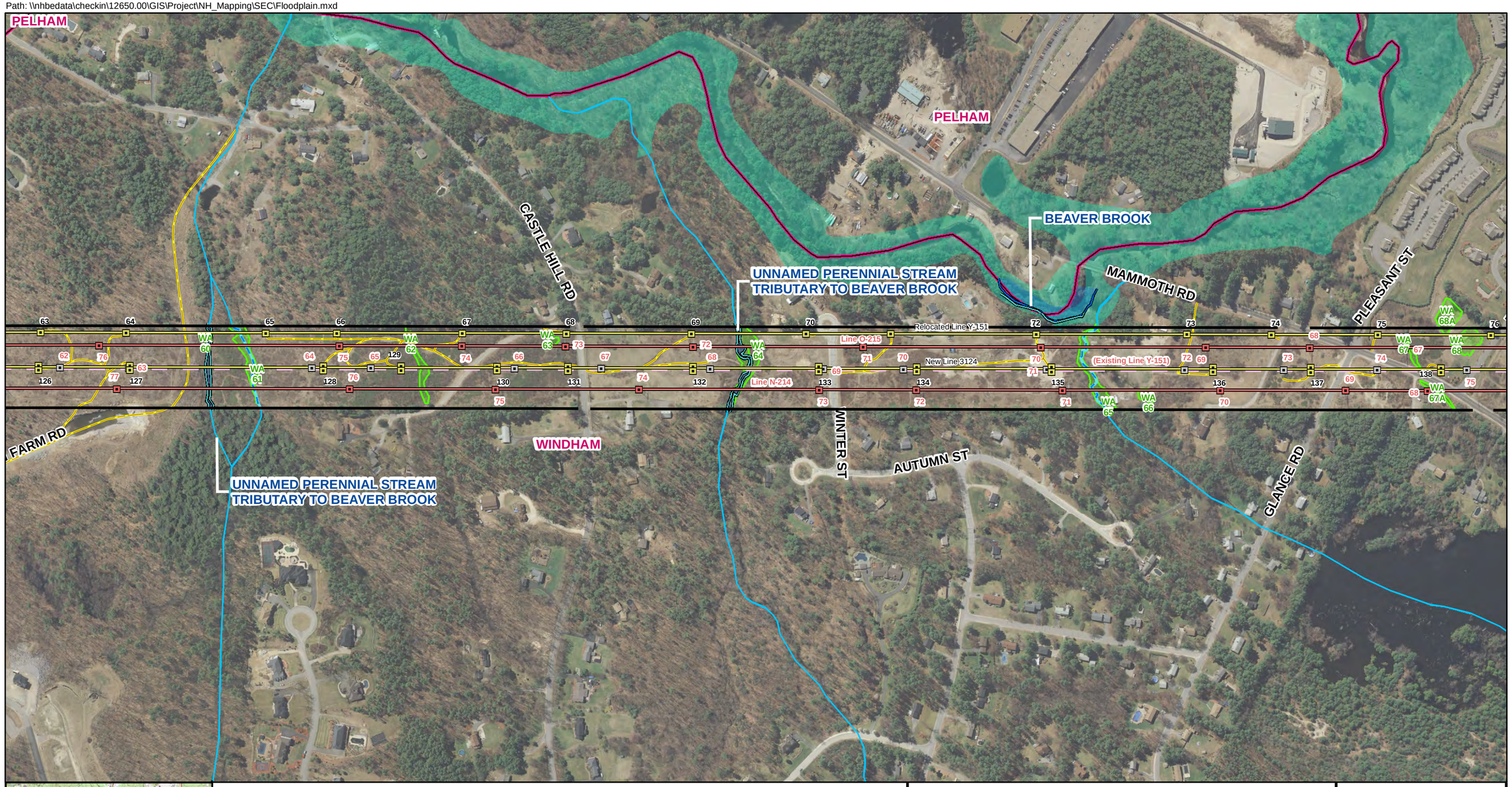

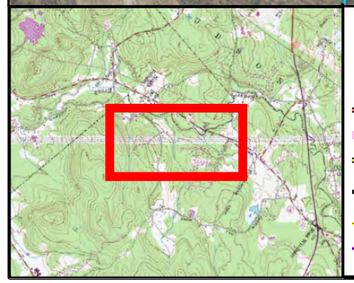

Existing Structure
Existing Structure to be Removed
Proposed Structure
Existing Transmission Line
Existing Line to be Removed
Proposed Transmission Line
Surveyed ROW Boundary
Primary Access
Alternate Access

Wetland Edge
Estimated Wetland Edge
Wetland Resource Area
Open Water
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Delineated Ordinary High Water
USGS Stream

FEMA 100-yr Floodplain
Town Boundaries

N

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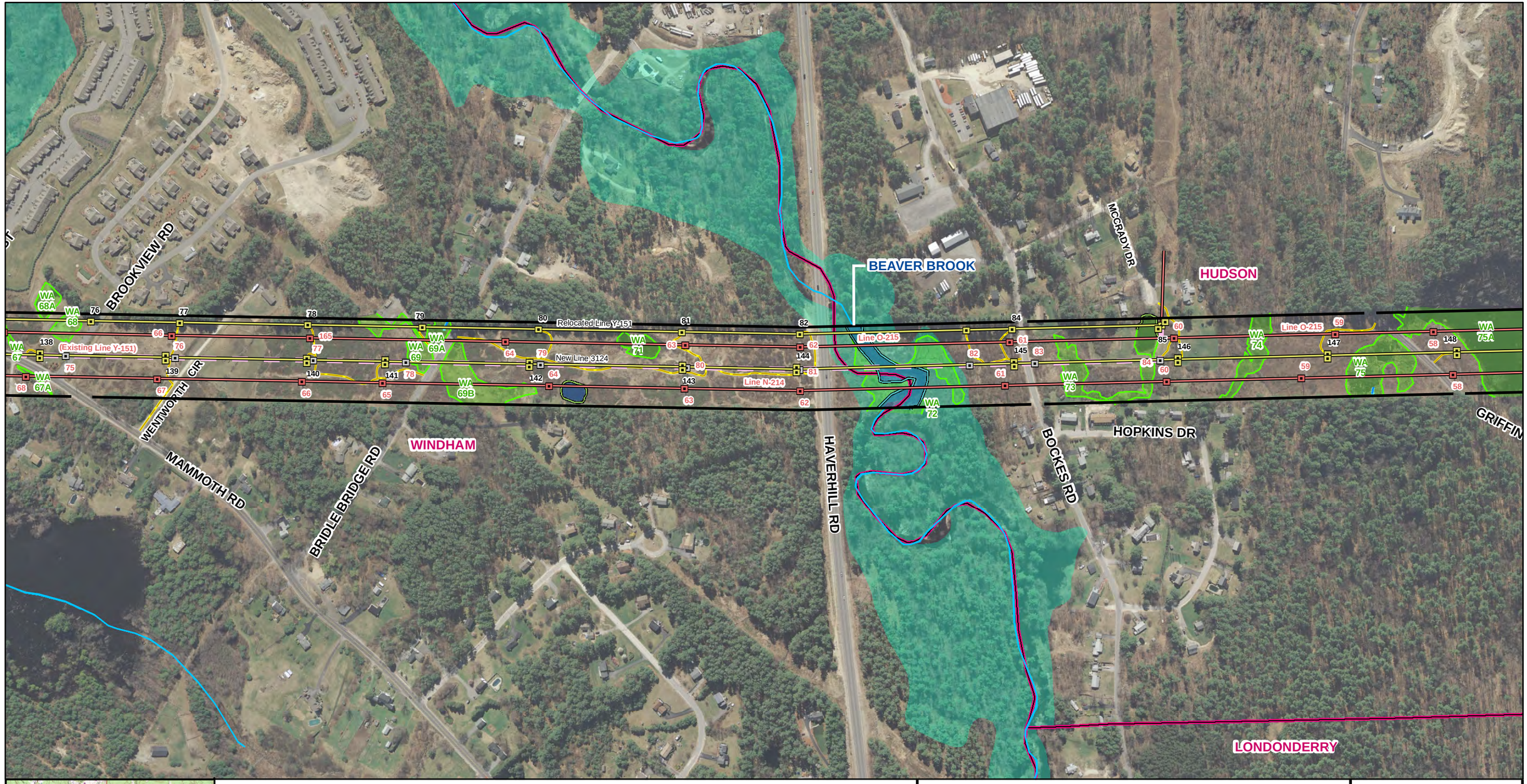

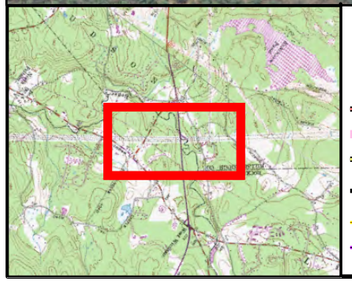

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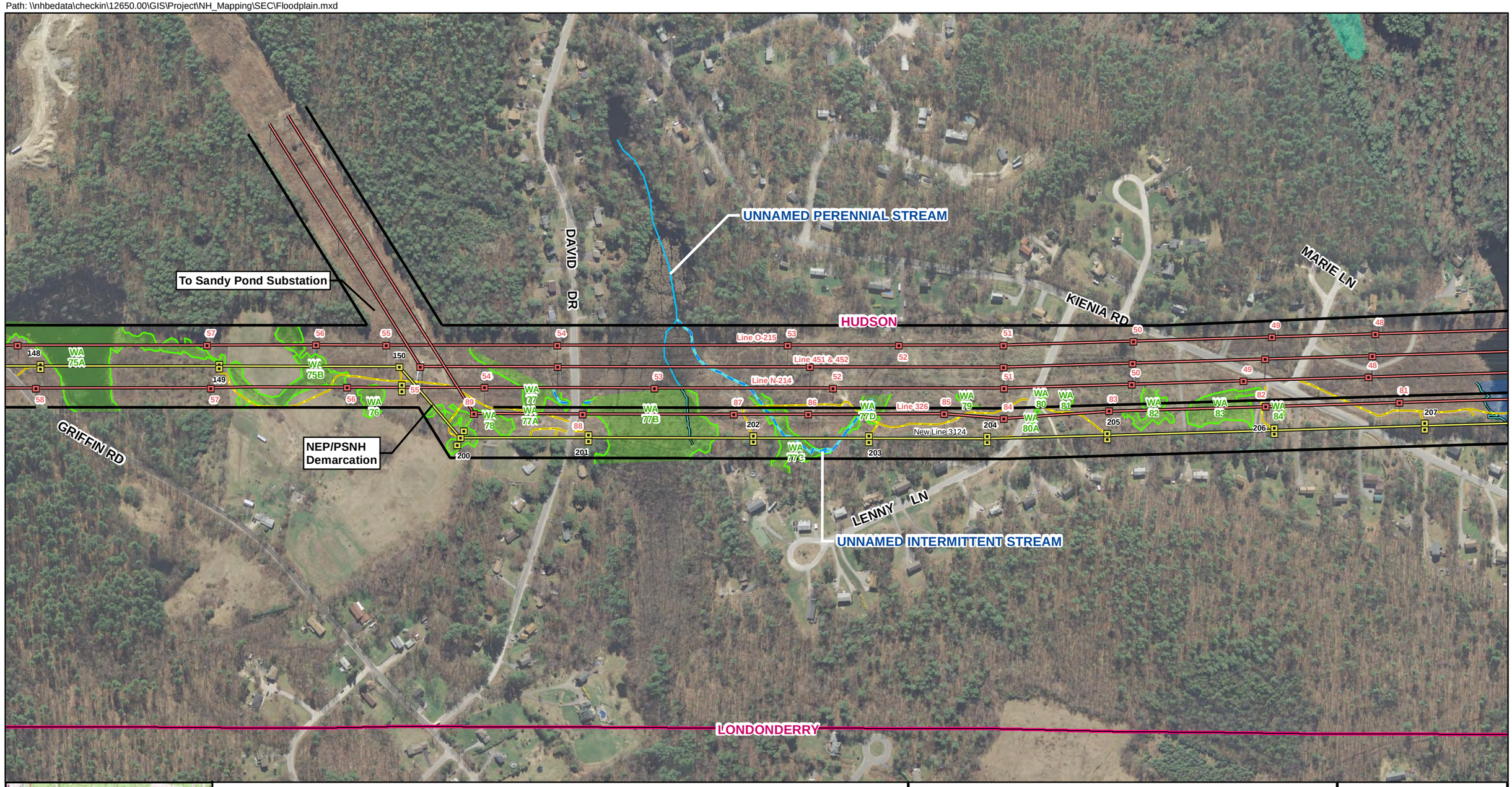

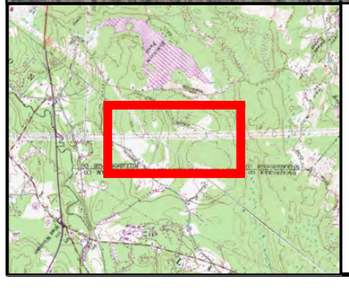

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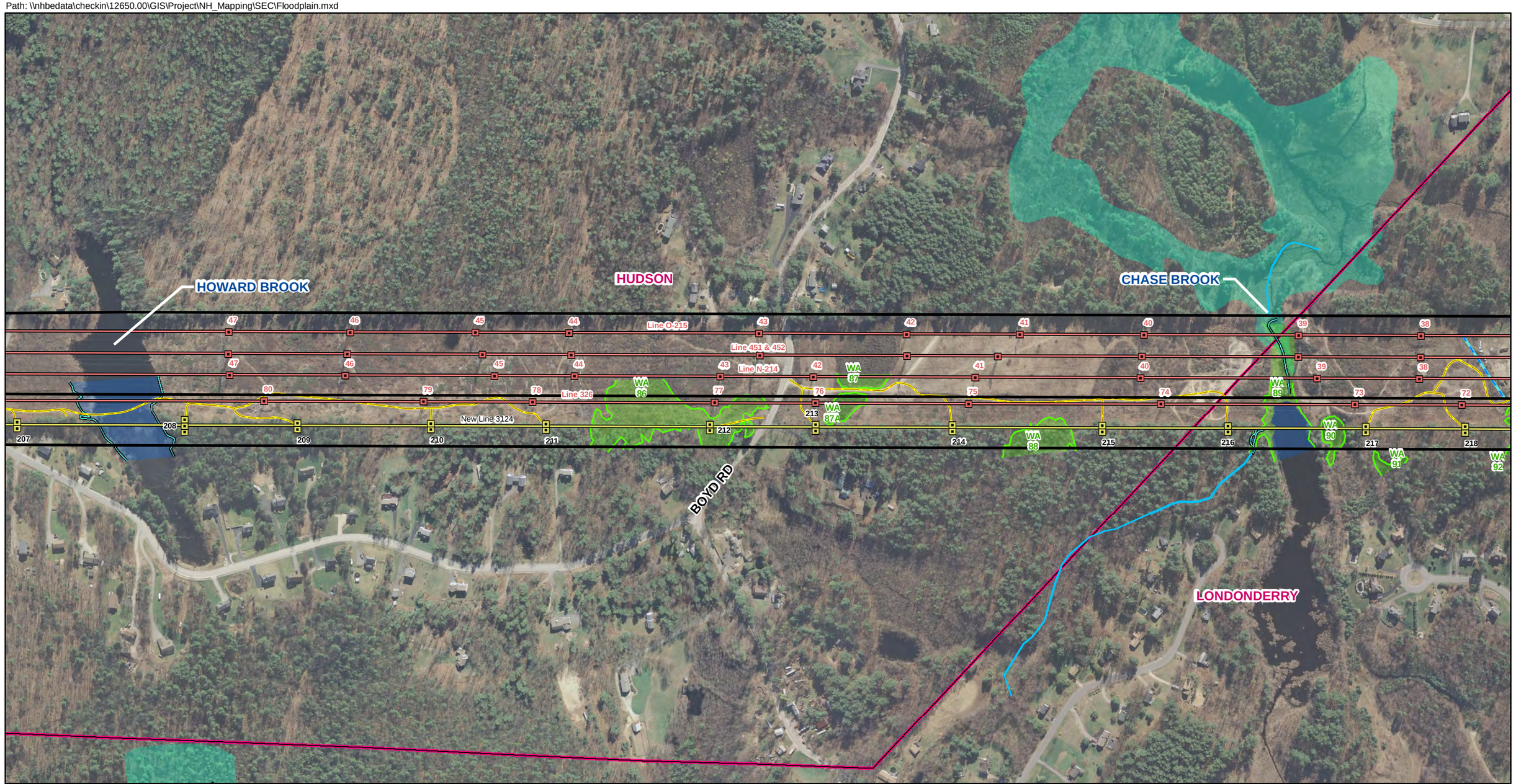

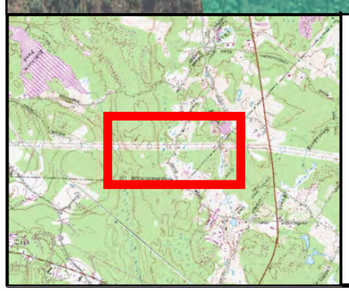

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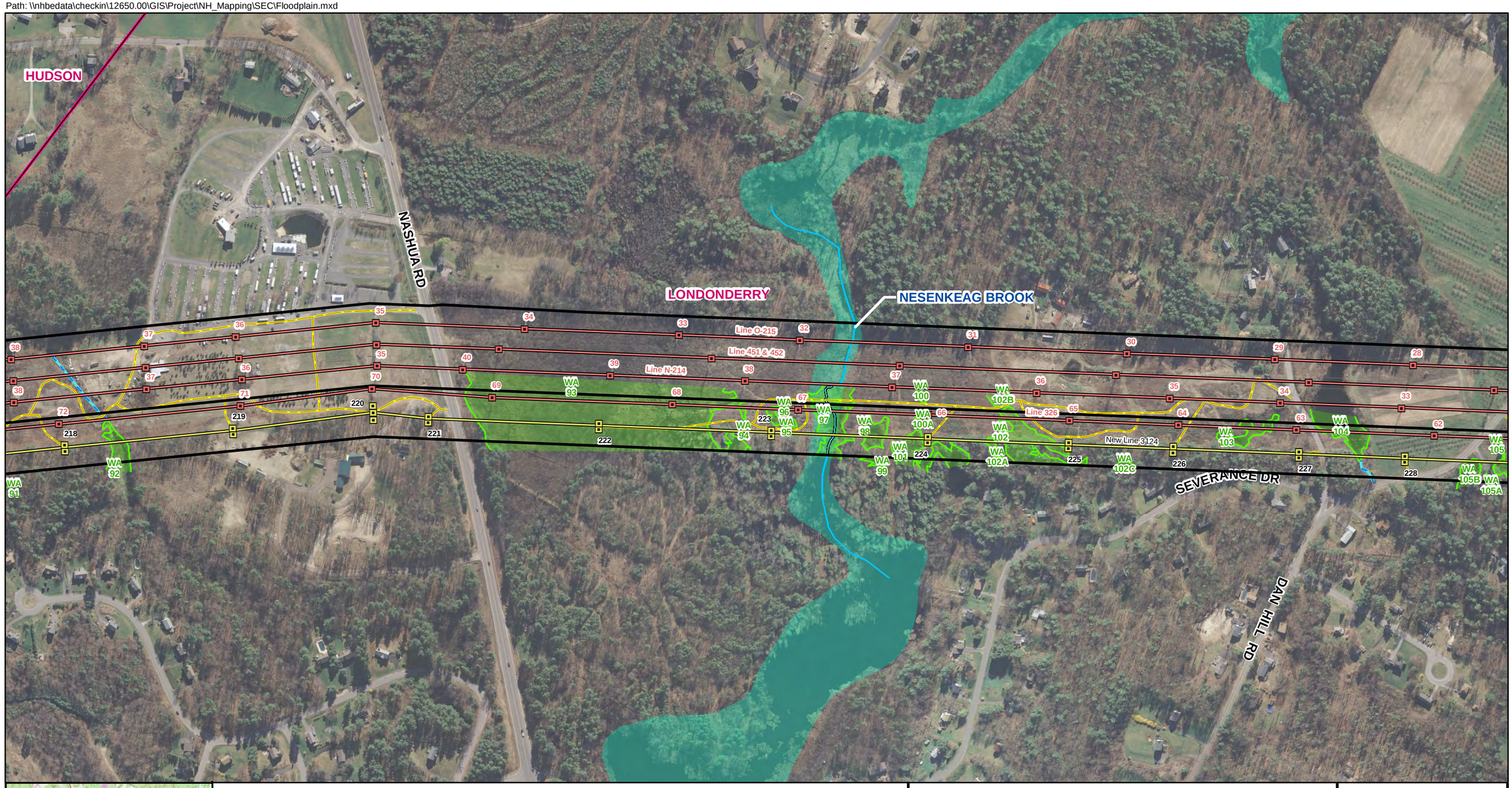

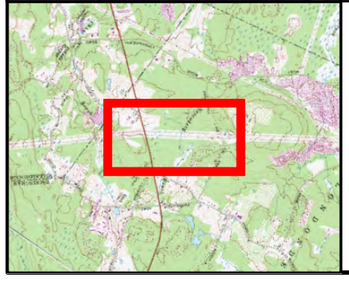

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Figure 3: FEMA Floodplain
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
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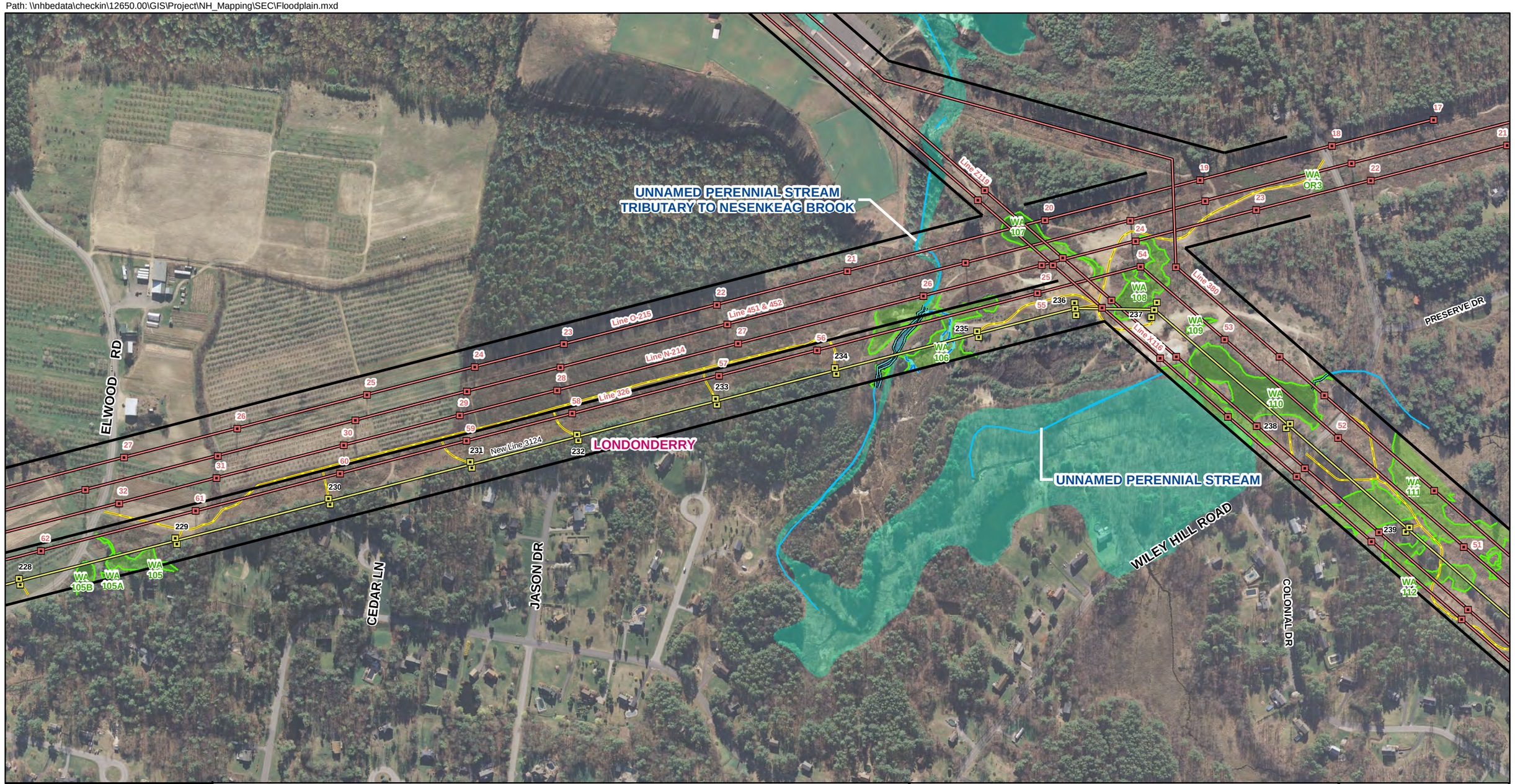

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Figure 3: FEMA Floodplain
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Date: 5/29/2015

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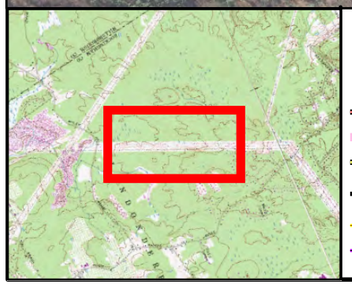

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WRIGHT CIRCLE
SHASTA DR
MAMMOTH RD
LONDONDERRY
SO. PARISH DRIVE
WEST PARRISH DR
BANCROFT ROAD
KING HENRY DR
DARROW WAY
HARDY ROAD
New Line 3124
Line 380
Line 326
Line R187
Line 365
Line S188
Line X116
Line Z119
Existing
WA 139
WA 142
WA 143
WA 141
WA 146
WA 146A
WA 144
WA 145
Mammoth Road Substation

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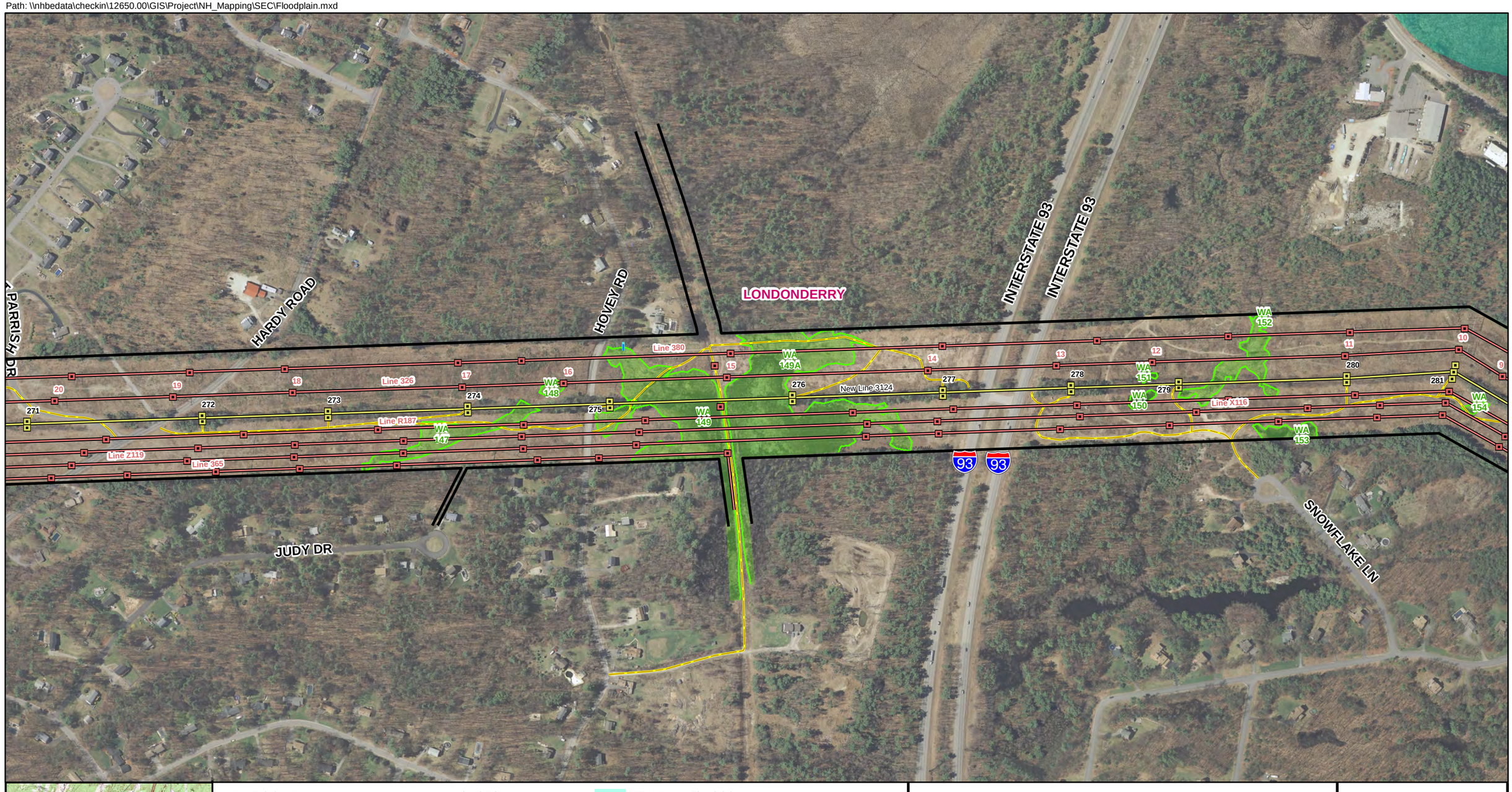

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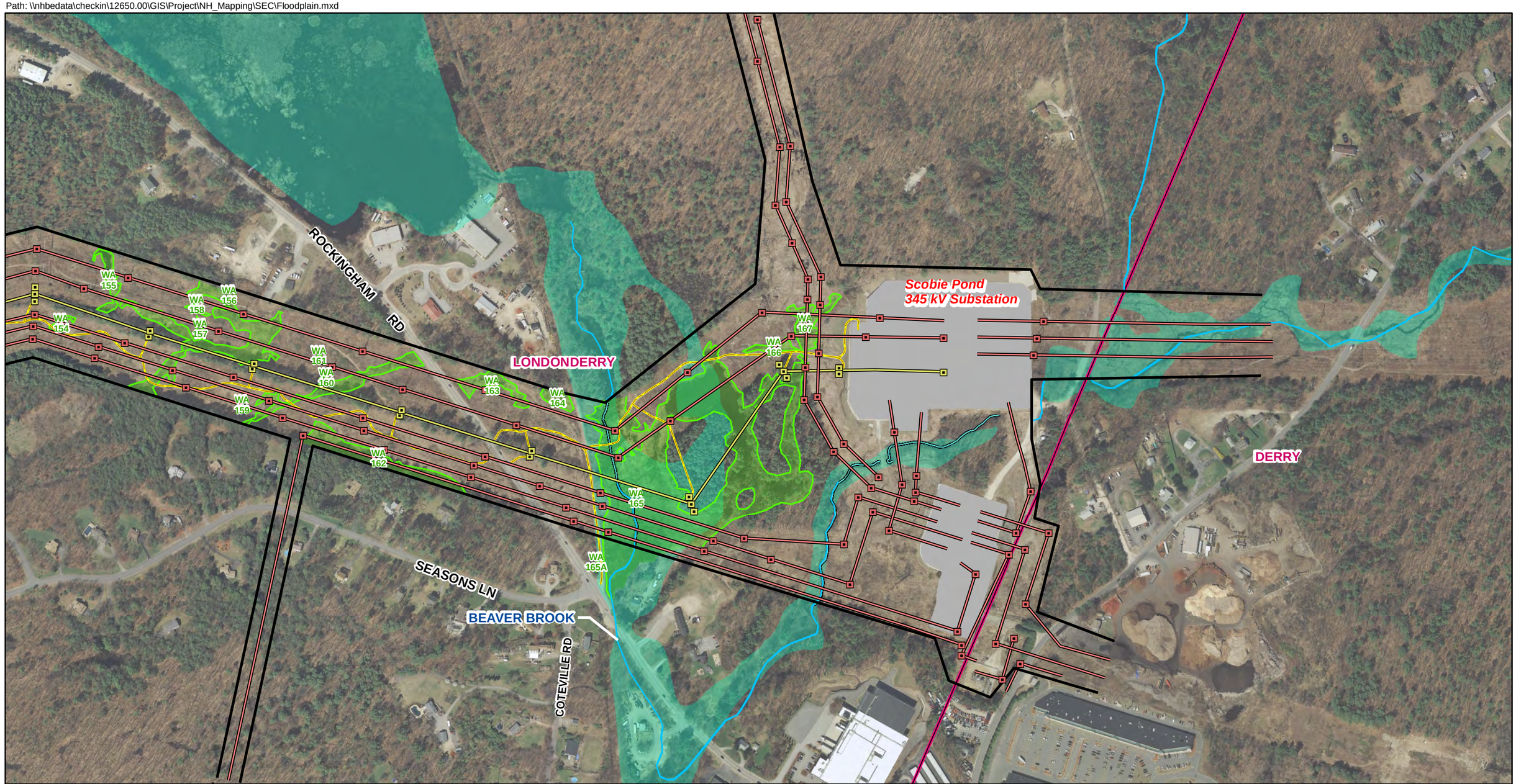

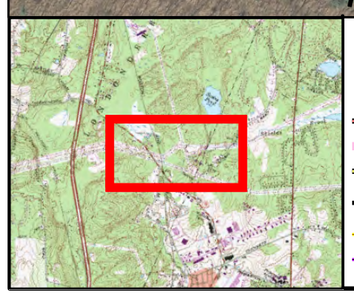

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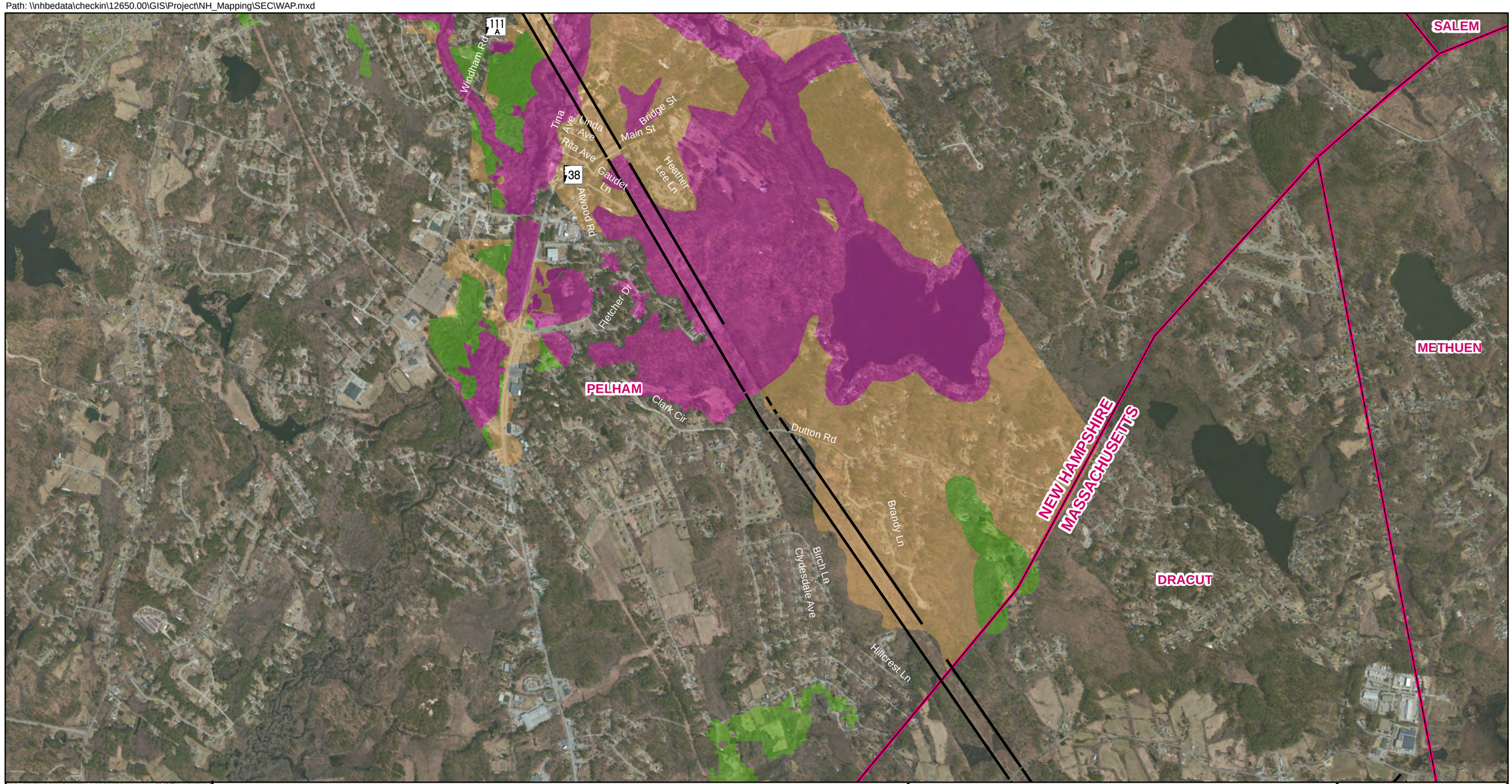

Wildlife Action Plan Habitat Ranking

- Highest Ranked Habitat in NH
- Highest Ranked Habitat in Biological Region
- Supporting Landscapes
- Surveyed ROW Boundary
- Town Boundaries

1 Inch = 2,000 Feet

0 1,000 2,000 4,000

Feet

Figure 4 - Wildlife Action Plan
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

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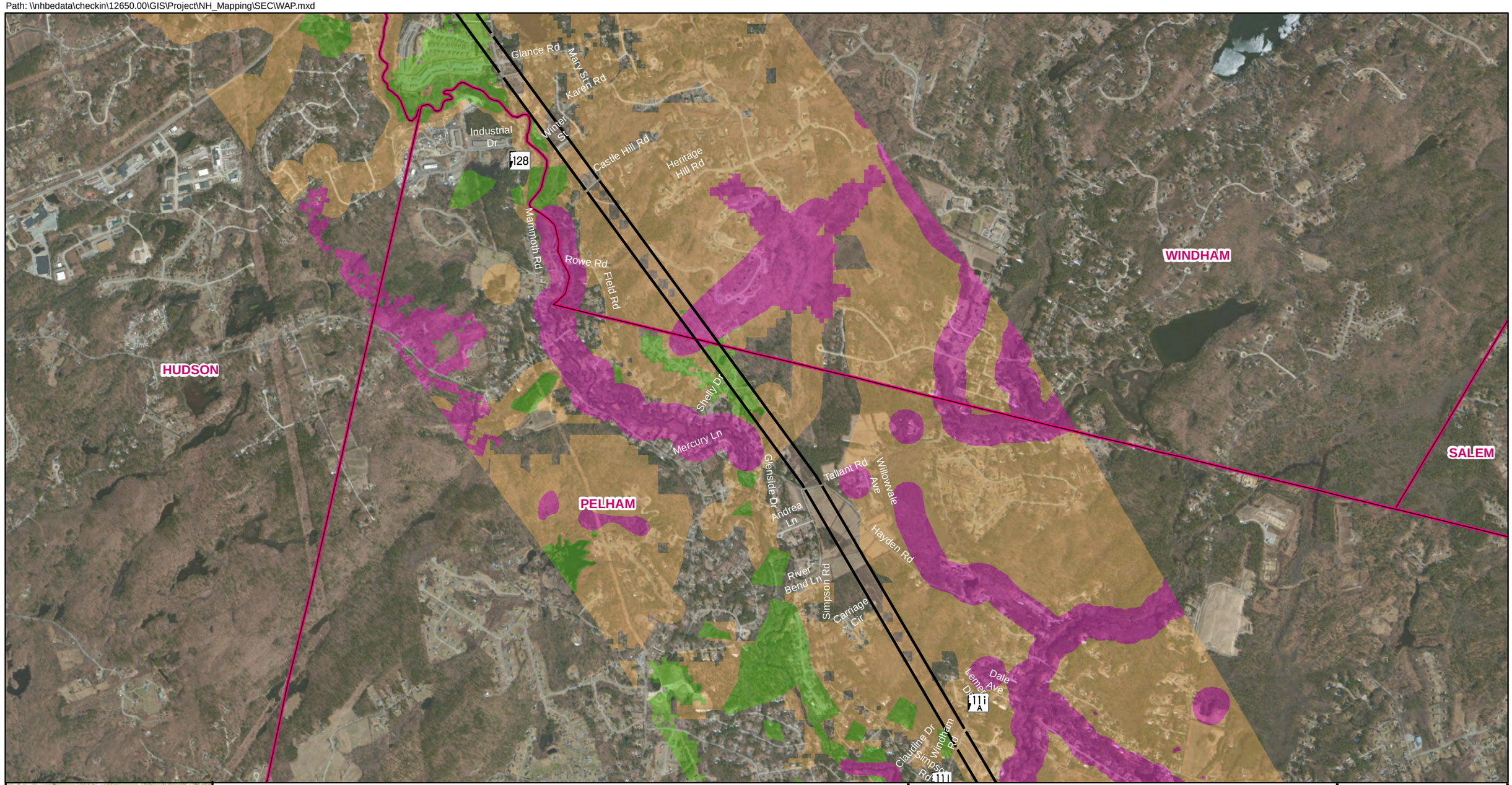

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0 1,000 2,000 4,000

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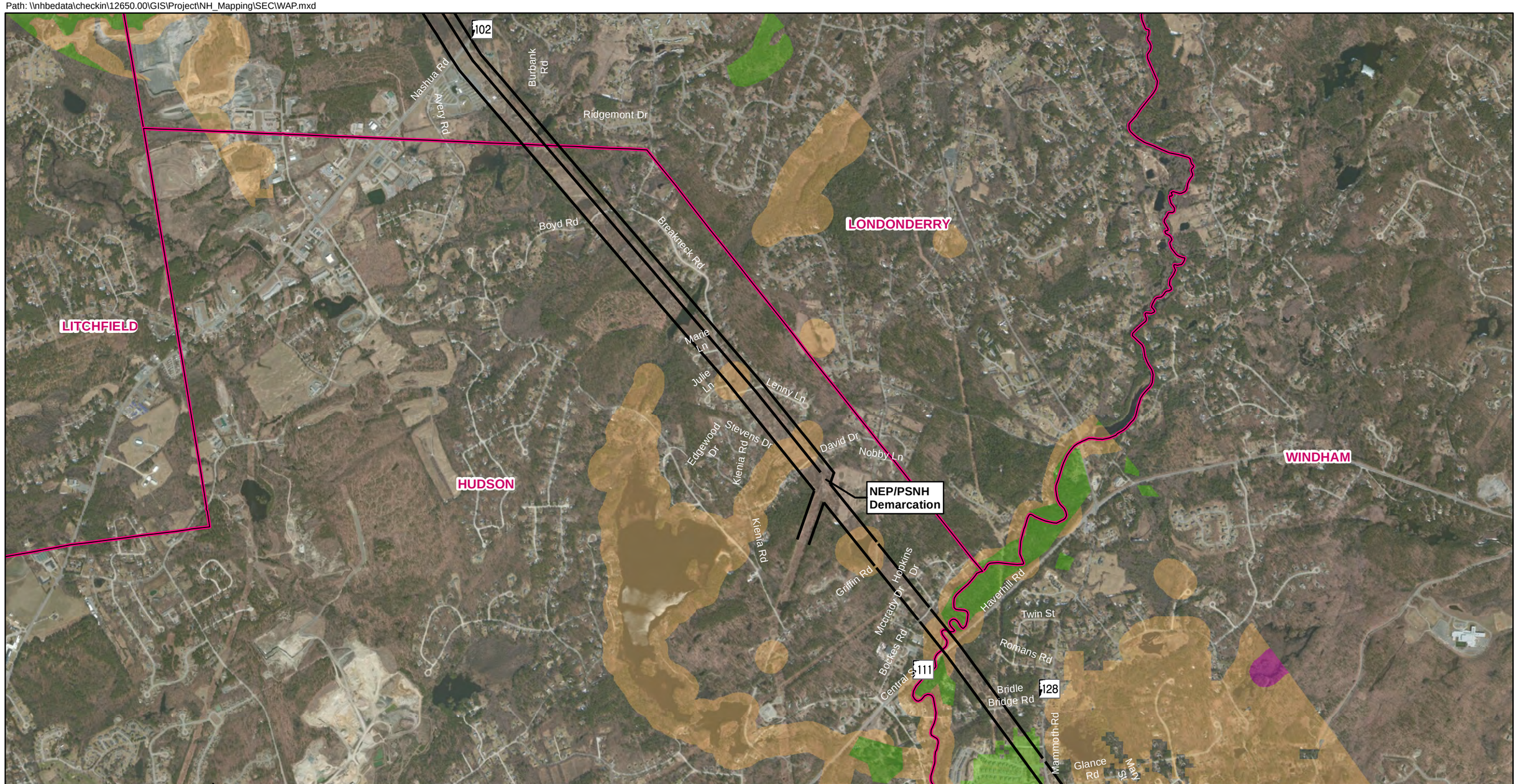

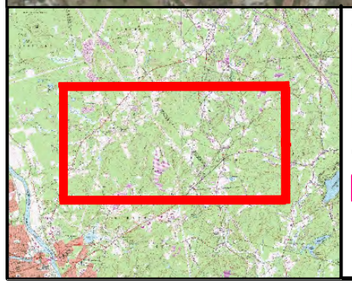

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Feet

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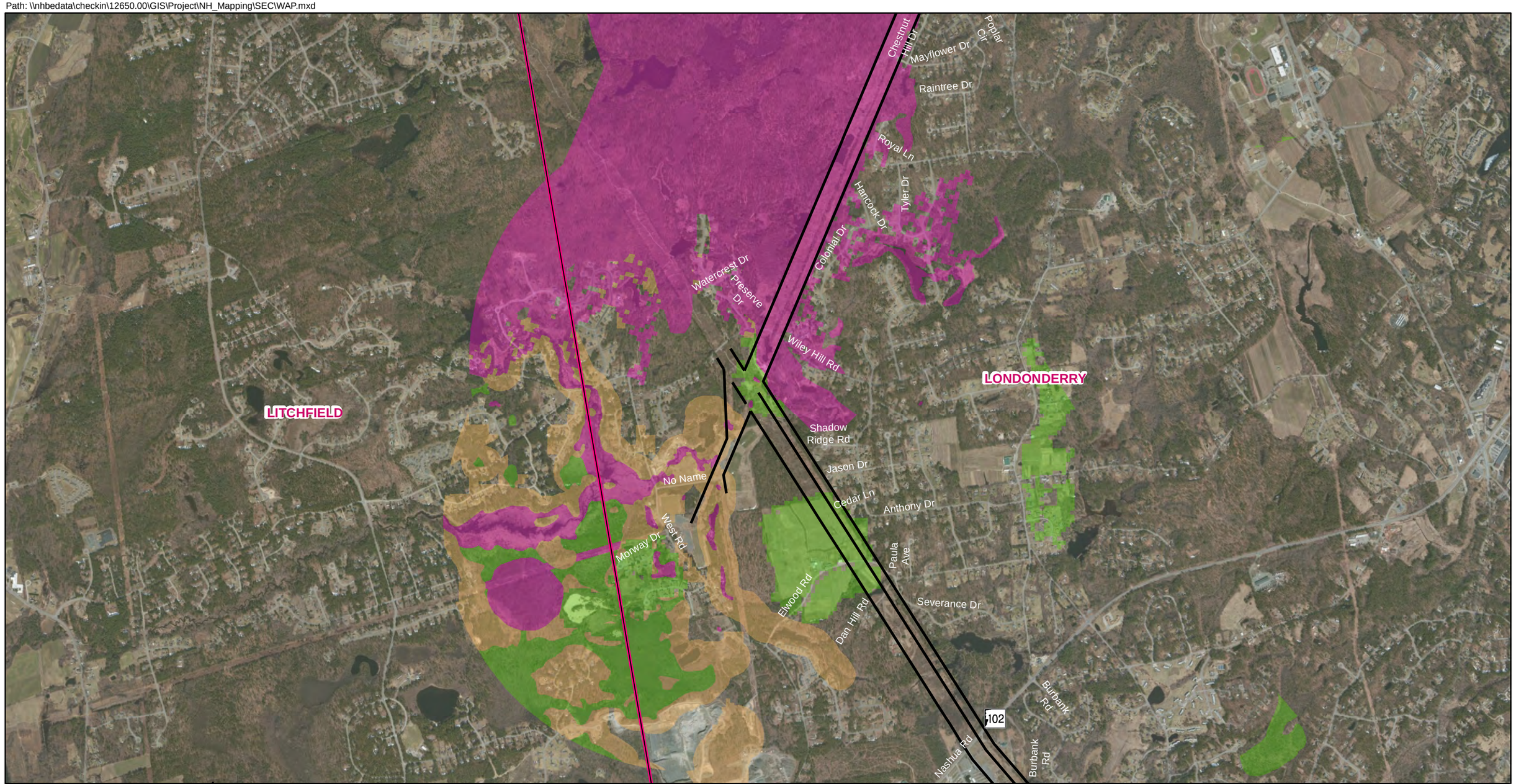

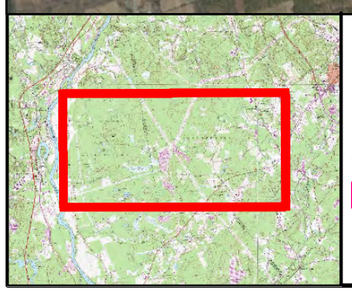

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0 1,000 2,000 4,000

Feet

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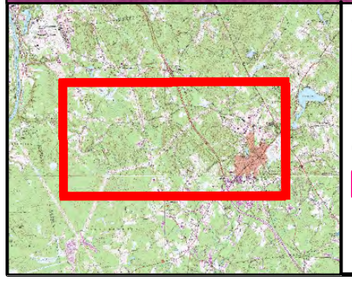

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nationalgrid

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Attachments A through I

- Attachment A – Wetland Permitting Plans
- Attachment B – Wetland and Stream Impact Summary Tables
- Attachment C – Representative Site Photographs
- Attachment D – Natural Resource Agency Correspondence
- Attachment E – Cultural Resource Agency Correspondence
- Attachment F –Abutter/Town Tax Maps
- Attachment G – USACE Functions and Values Form
- Attachment H – Vernal Pool Summary Table & Photographs
- Attachment I - Preliminary Project Mitigation Agreement

Attachment A

Wetland Permitting Plans

- Project Wetland Permitting Plans
- SA-41 Realignment Design Plan
- Stone Ford Standard Design Typical

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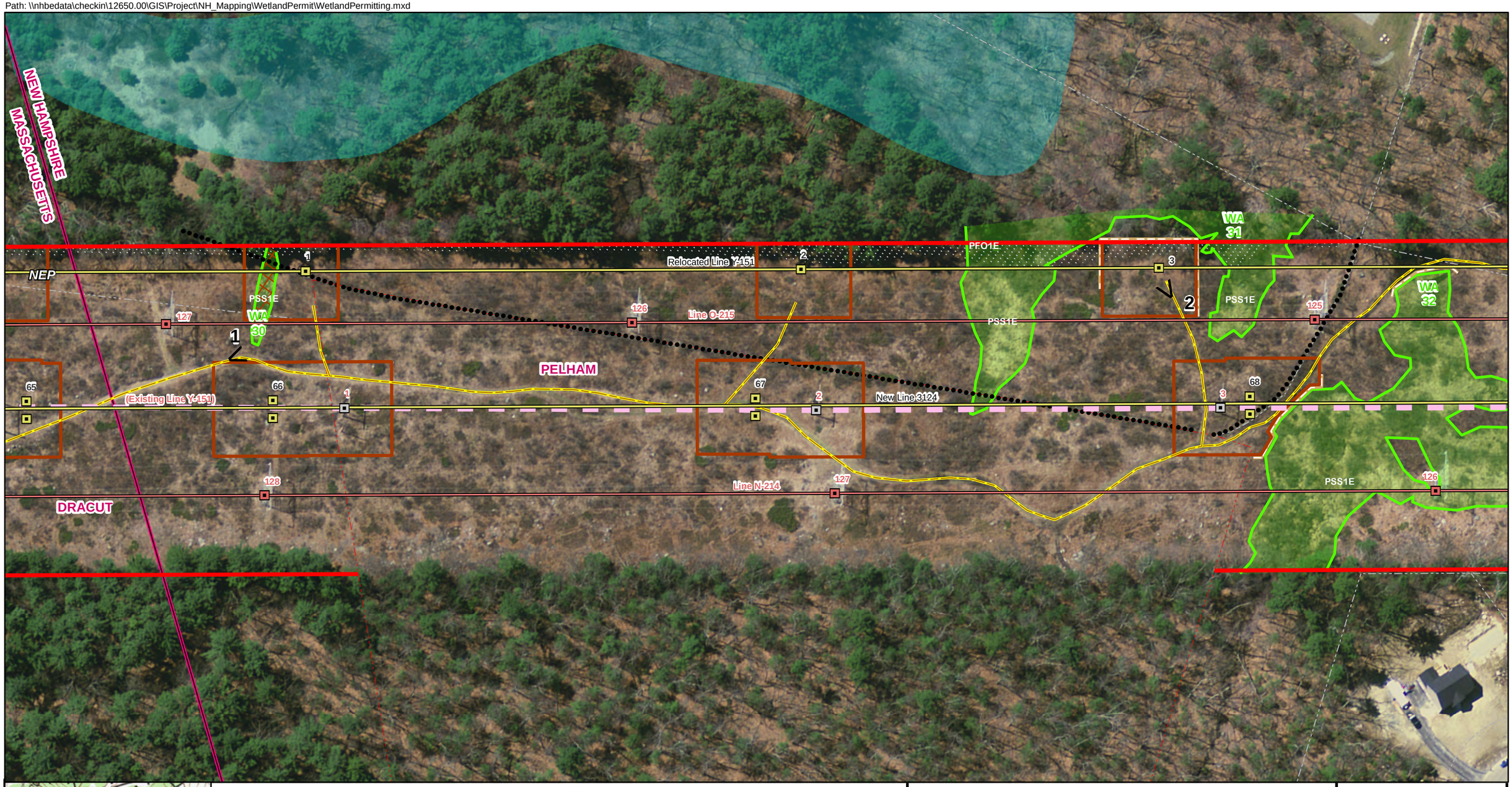

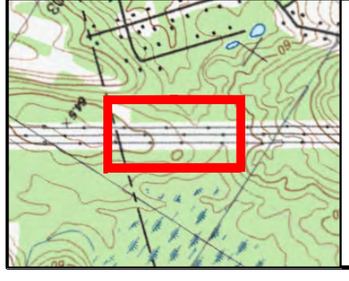

Existing Structure
Existing Structure to be Removed
Proposed Structure
Proposed Guy Anchor Location
Existing Transmission Line
Existing Line to be Removed
Proposed Transmission Line
Surveyed ROW Boundary
NEP Property
Parcel Boundary
Primary Access
Alternate Access

Gas Pipeline ROW
Sewer Line ROW
Delineated Wetland Edge
Estimated Wetland Edge
Wetland Resource Area
Open Water
Vernal Pool
Delineated Perennial Stream
Delineated Intermittent Stream
Delineated Ordinary High Water

USGS Stream
NHDES Prime Wetland
FEMA 100-yr Floodplain

Construction Work Pad (100'x100')
Pull Pad Site (100'x300')
Guard Protection Area (50'x50')
Swamp Mat Construction Work Pad
Swamp Mat Access
Proposed Permanent Crossing
Laydown Area
Stone Apron
Culvert
Fence

Stone Wall
Erosion Control
Tree Clearing Area
Photo Location
Town Boundary

1 Inch = 100 Feet
0 50 100 200
Feet

Wetland Permitting Plan Set
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB,
Beals & Thomas,Eversource,Normandeau

Date: 7/6/2015

nationalgrid

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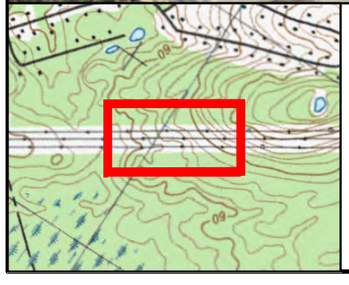

Existing Structure
Existing Structure to be Removed
Proposed Structure
Proposed Guy Anchor Location
Existing Transmission Line
Existing Line to be Removed
Proposed Transmission Line
Surveyed ROW Boundary
NEP Property
Parcel Boundary
Primary Access
Alternate Access

Gas Pipeline ROW
Sewer Line ROW
Delineated Wetland Edge
Estimated Wetland Edge
Wetland Resource Area
Open Water
Vernal Pool
Delineated Perennial Stream
Delineated Intermittent Stream
Delineated Ordinary High Water

USGS Stream
NHDES Prime Wetland
FEMA 100-yr Floodplain

Construction Work Pad (100'x100')
Pull Pad Site (100'x300')
Guard Protection Area (50'x50')
Swamp Mat Construction Work Pad
Swamp Mat Access
Proposed Permanent Crossing
Laydown Area
Stone Apron
Culvert
Fence

Stone Wall
Erosion Control
Tree Clearing Area
Photo Location
Town Boundary

1 Inch = 100 Feet
0 50 100 200
Feet

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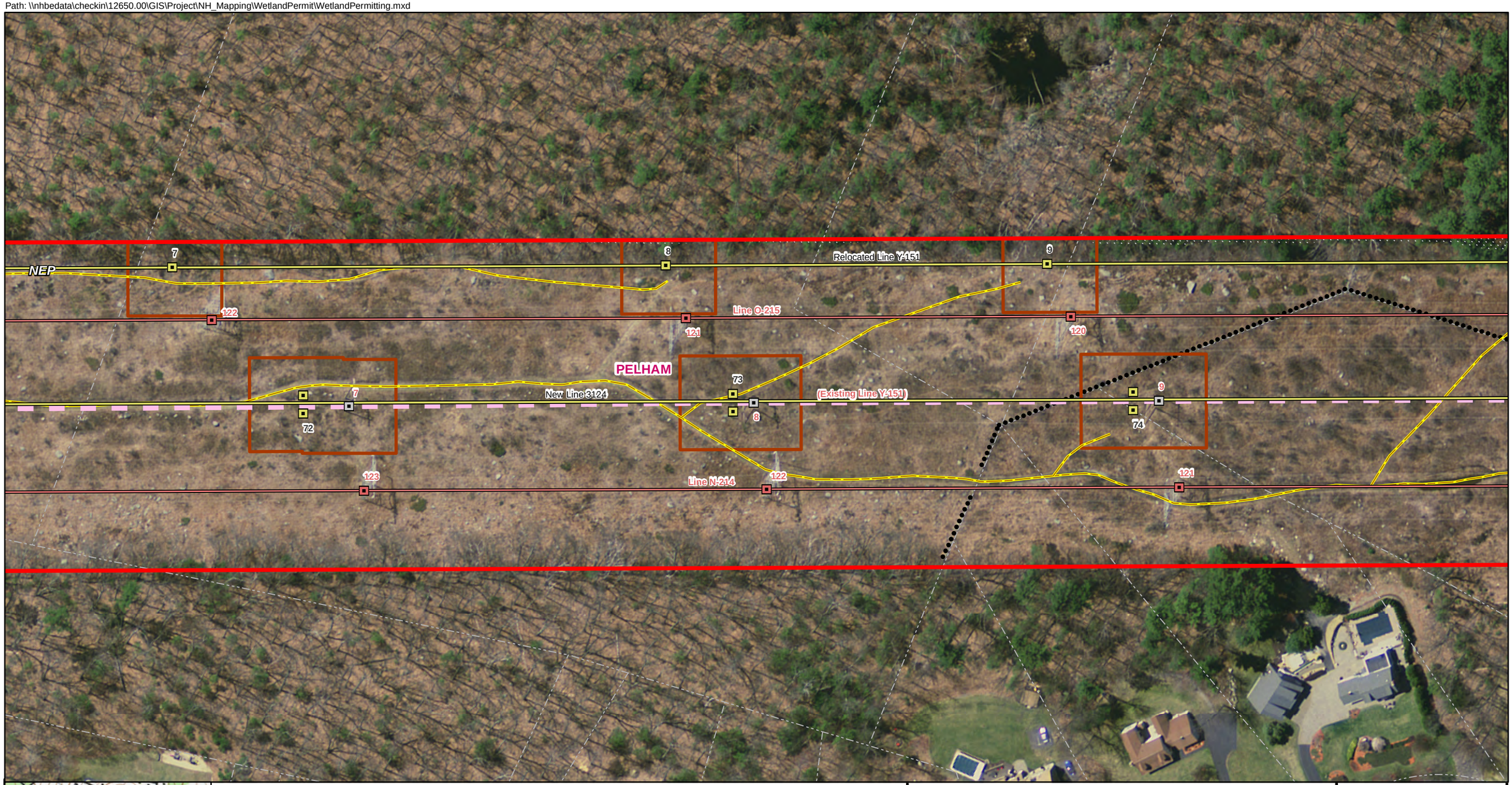

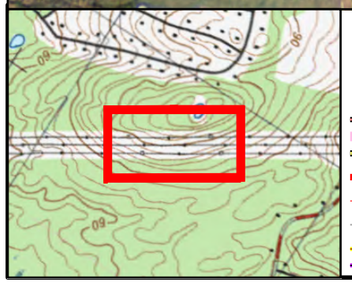

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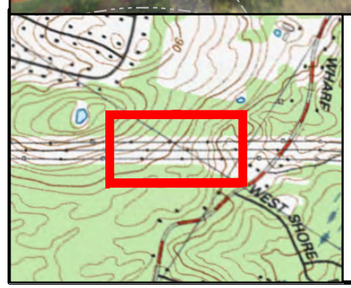

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UNNAMED INTERMITTENT STREAM

UNNAMED INTERMITTENT STREAM

SA-11 R4SB5 PFO1E WA 36A

PSS1E R4SB5/6

SA-11 R4SB5/6

PSS/EM1E

PSS1E

WA 36

PSS1E

WA 37 PSS1E

PSS1E

Relocated Line Y-151

Line O-215

NEP

(Existing Line Y-151)

New Line 3124

PELHAM

Line N-214

DUTTON RD

LITTLE ISLAND POND PRIME WETLAND

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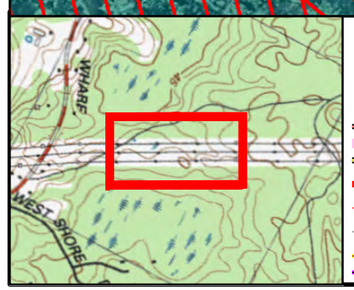

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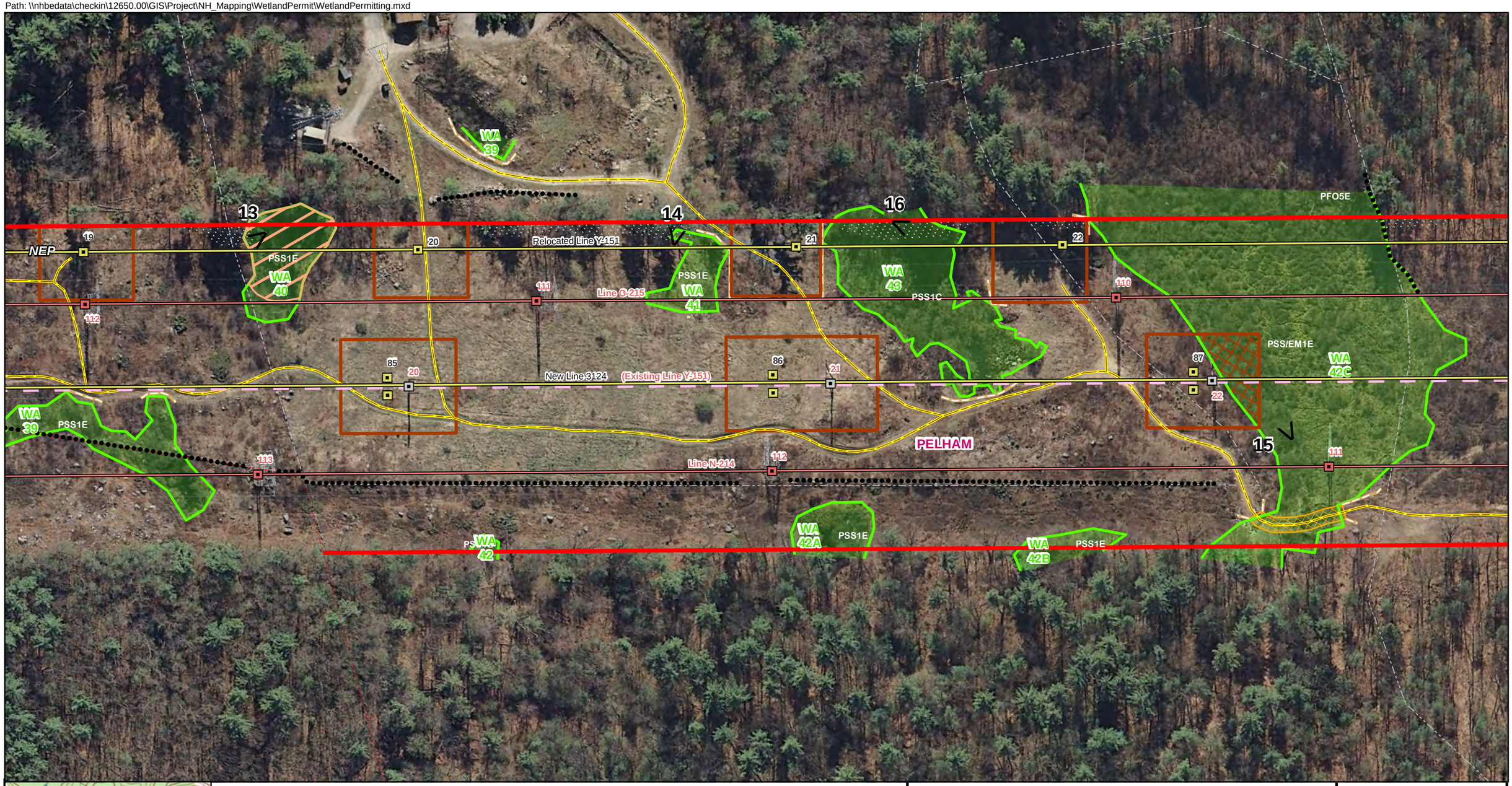

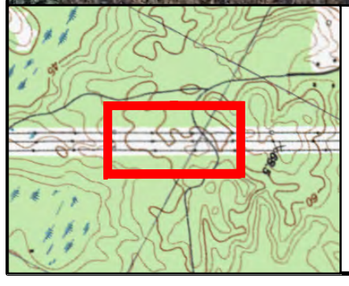

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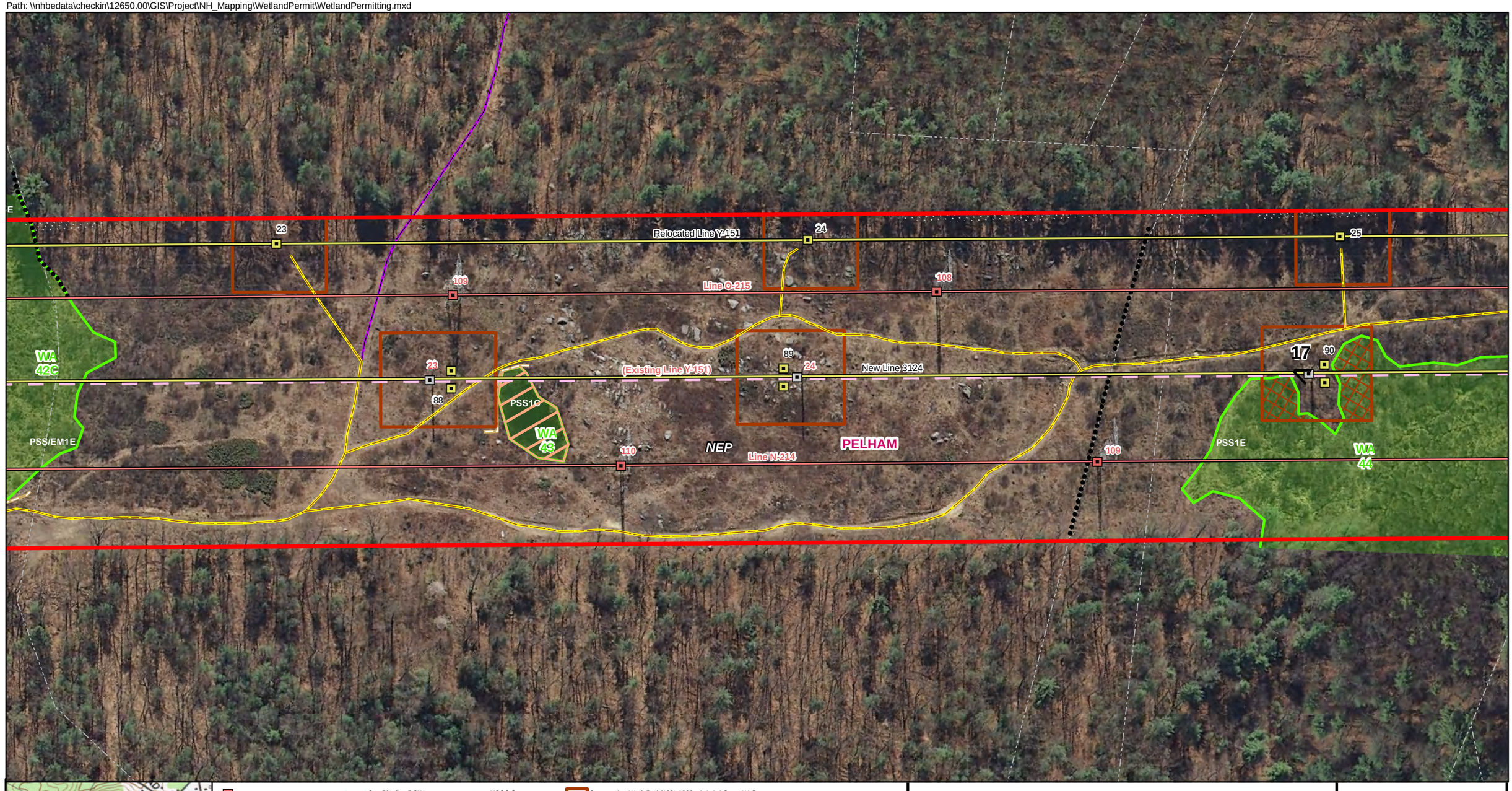

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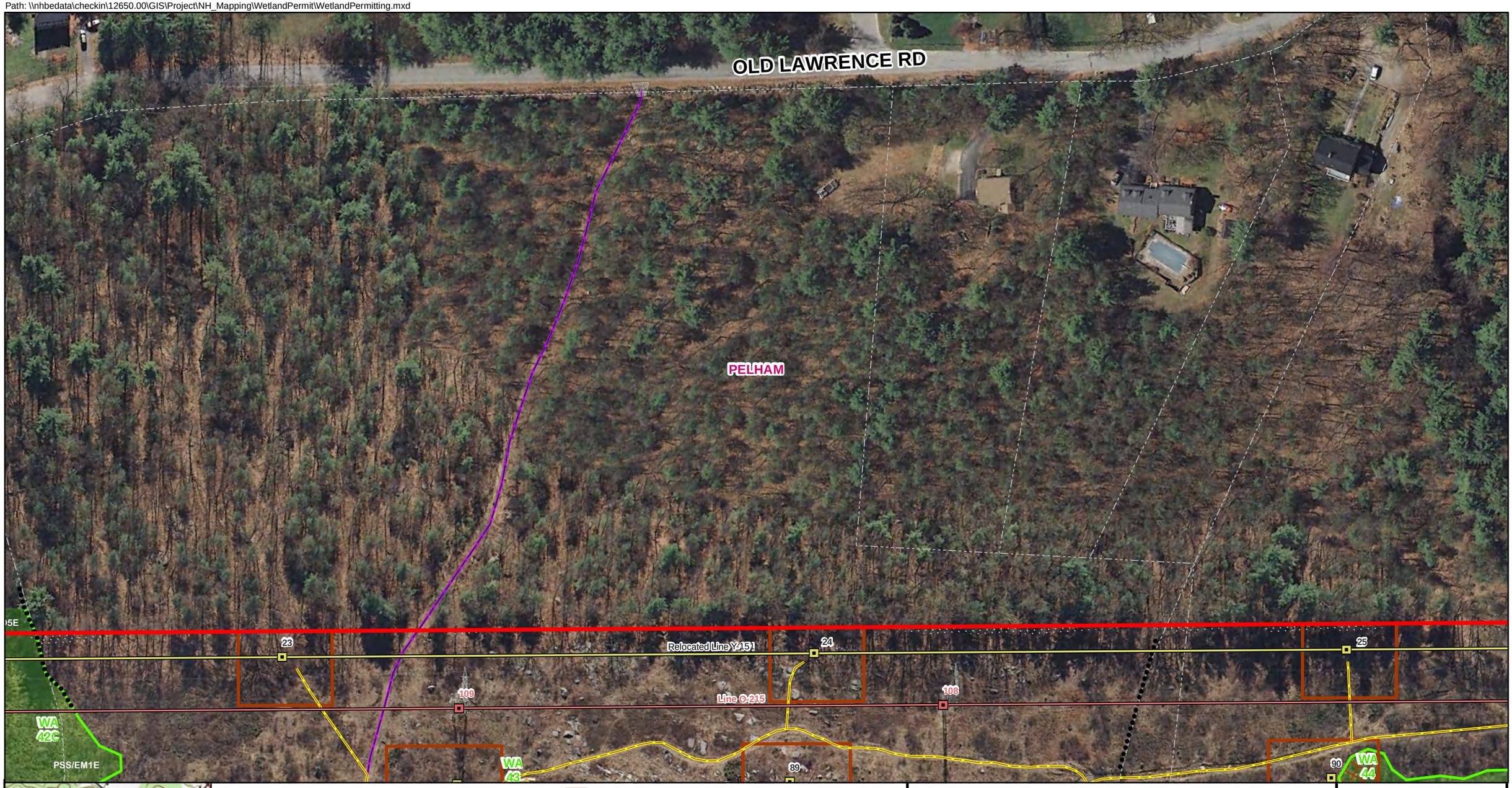

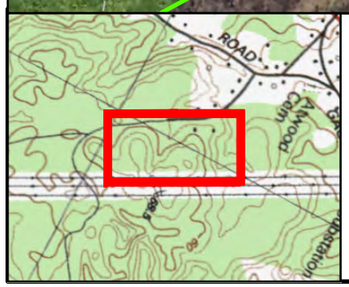

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UNNAMED INTERMITTENT STREAM
SA-12
R2UB3
PFO5E
Relocated Line Y-151
26
27
18
147
WA 44
Line O-215
106
PSS1A
92
27
26
(Existing Line Y-151)
NEP
New Line 3124
91
PSS/EM1E
SA-13
R4SB5
WA 45
P1-1
Existing
108
Line N-214
PELHAM
107
PSS1E
106
19
PSS1E
WA 45A
P1-0
Pelham Su
UNNAMED INTERMITTENT STREAM
Proposed Permanent Crossing
HEATHER L

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GOLDEN BROOK
SA-14
Relocated Line Y-151
33
34
35
21
102
Line O-215
NEP
101
WA
46
PUBH
22
PSS1E
97
98
31
(Existing Line Y-151)
32
New Line 3124
PEM1H
99
102
Line N-214
101
PELHAM
R2UB2/3
LOWER GOLDEN BROOK PRIME WETLAND

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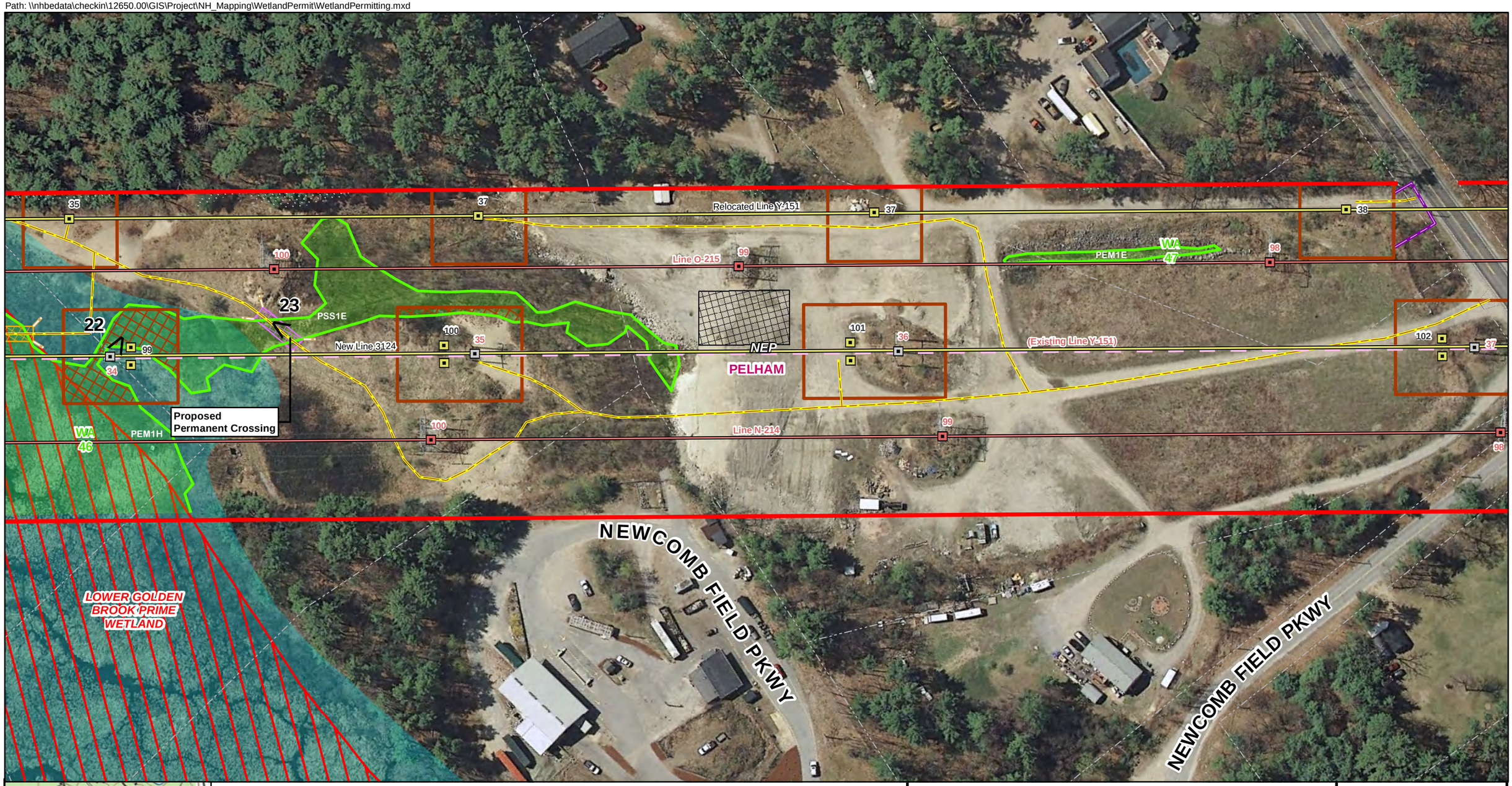

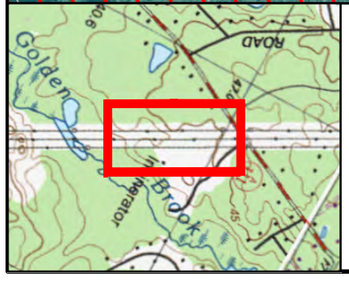

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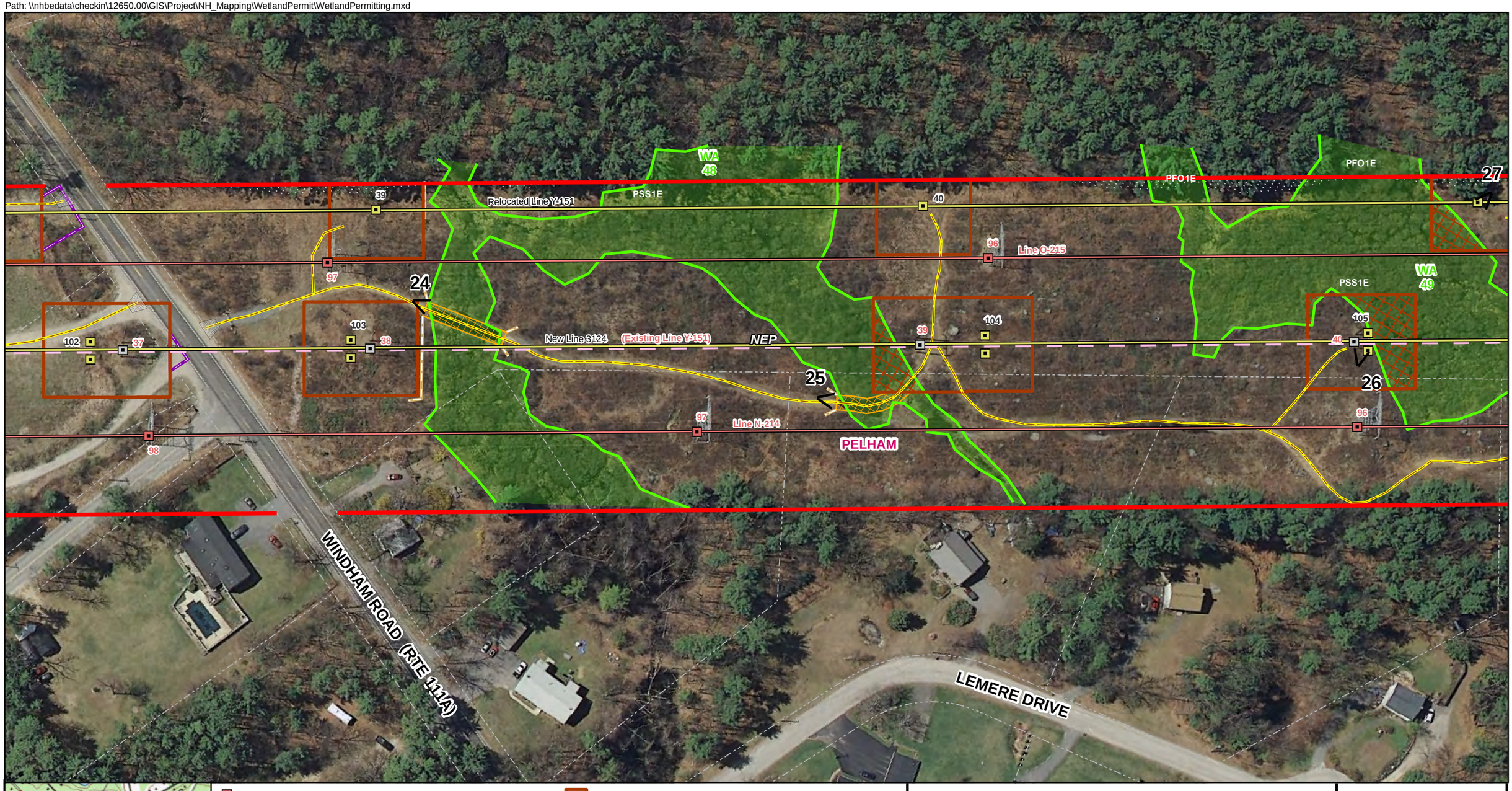

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0 50 100 200

Feet

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Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB,
Beals & Thomas,Eversource,Normandeau

Date: 7/6/2015

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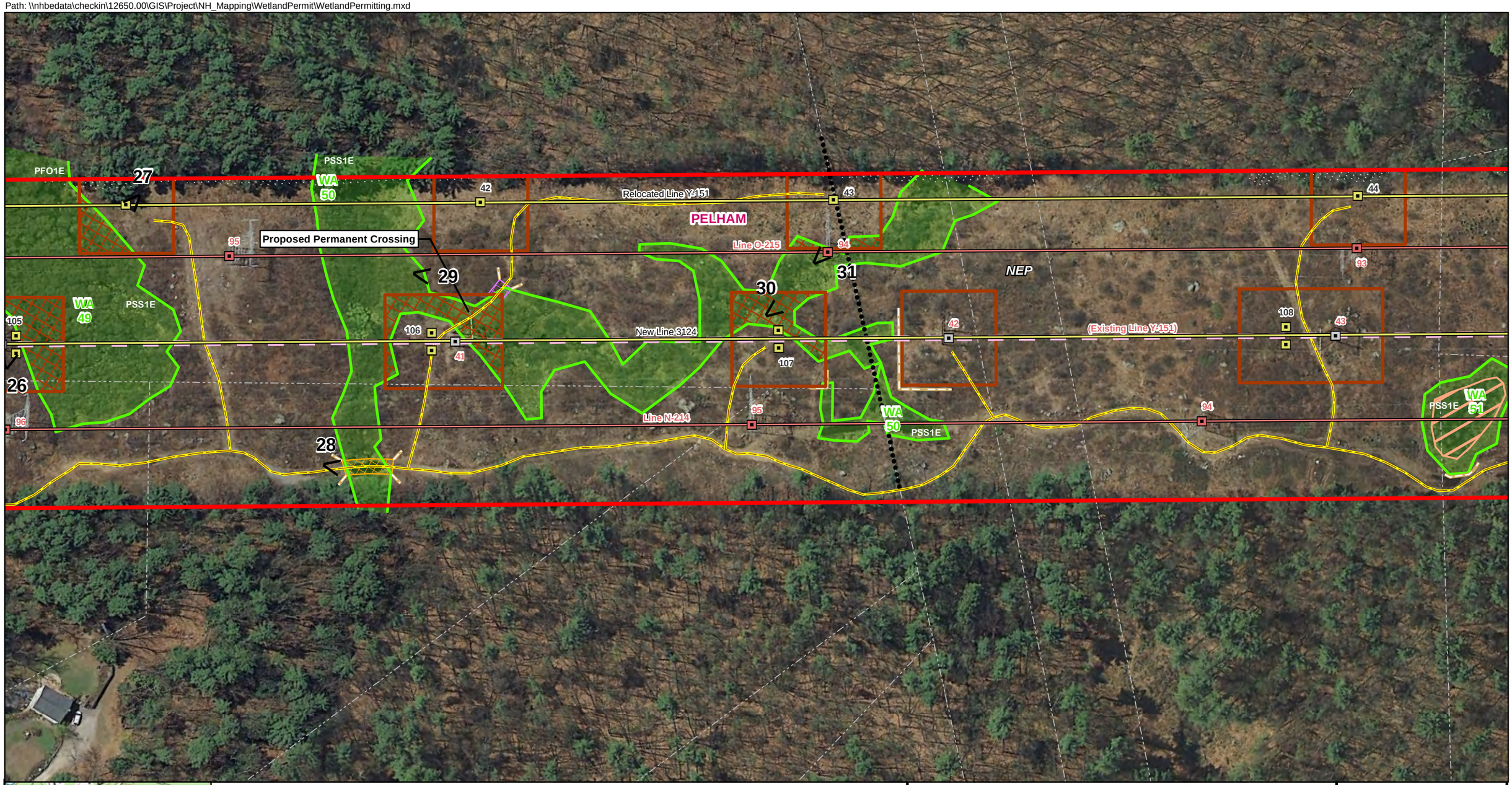

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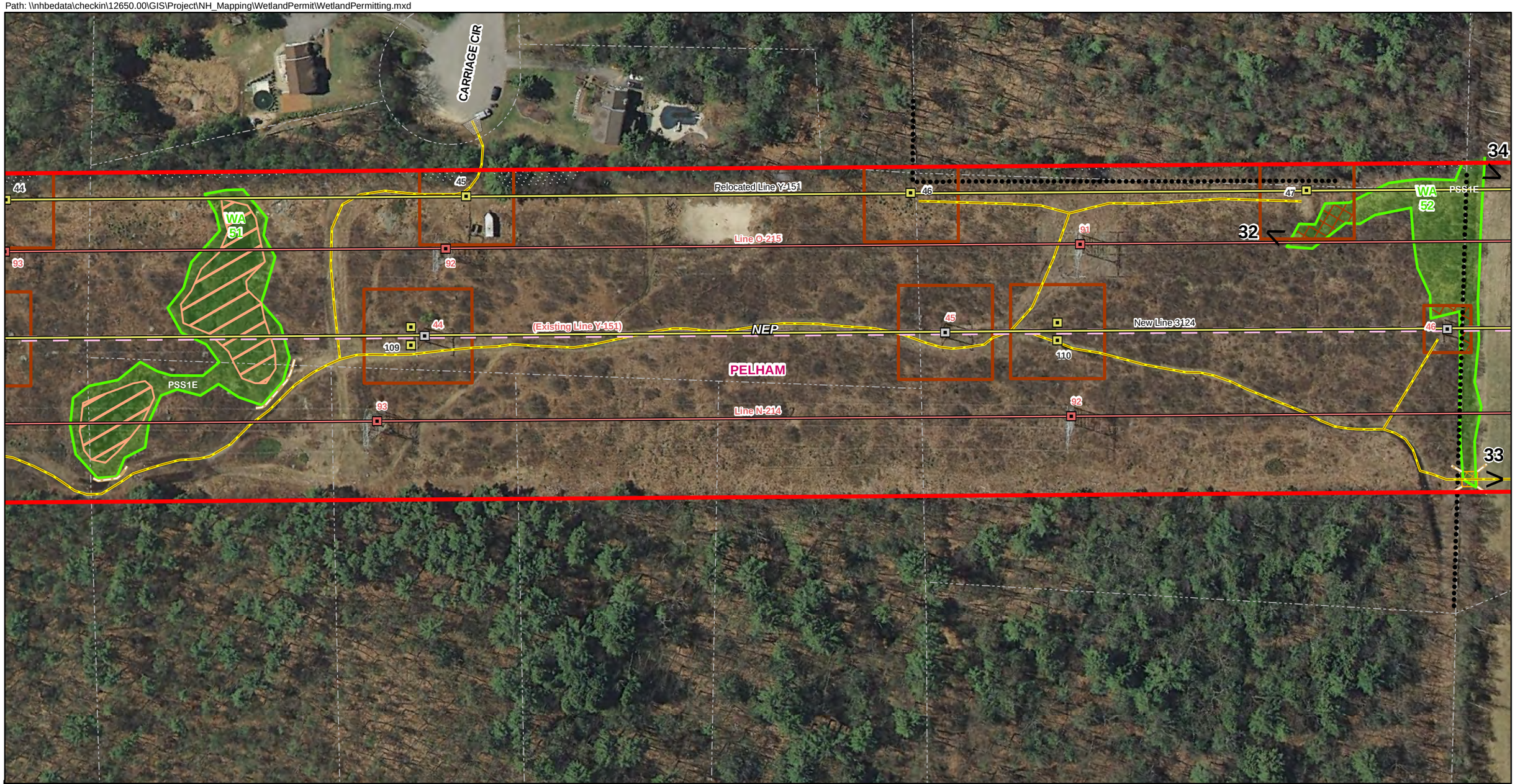

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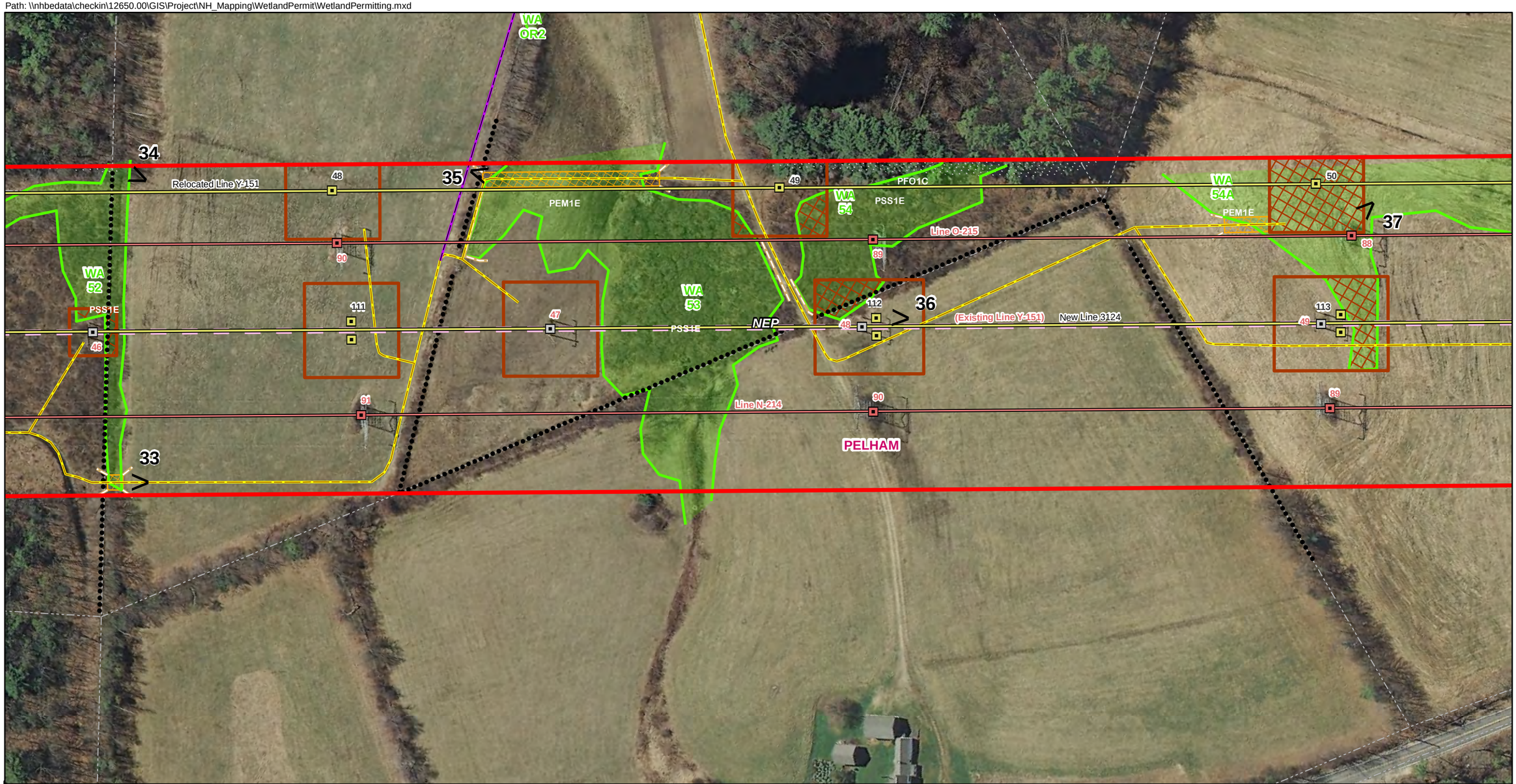

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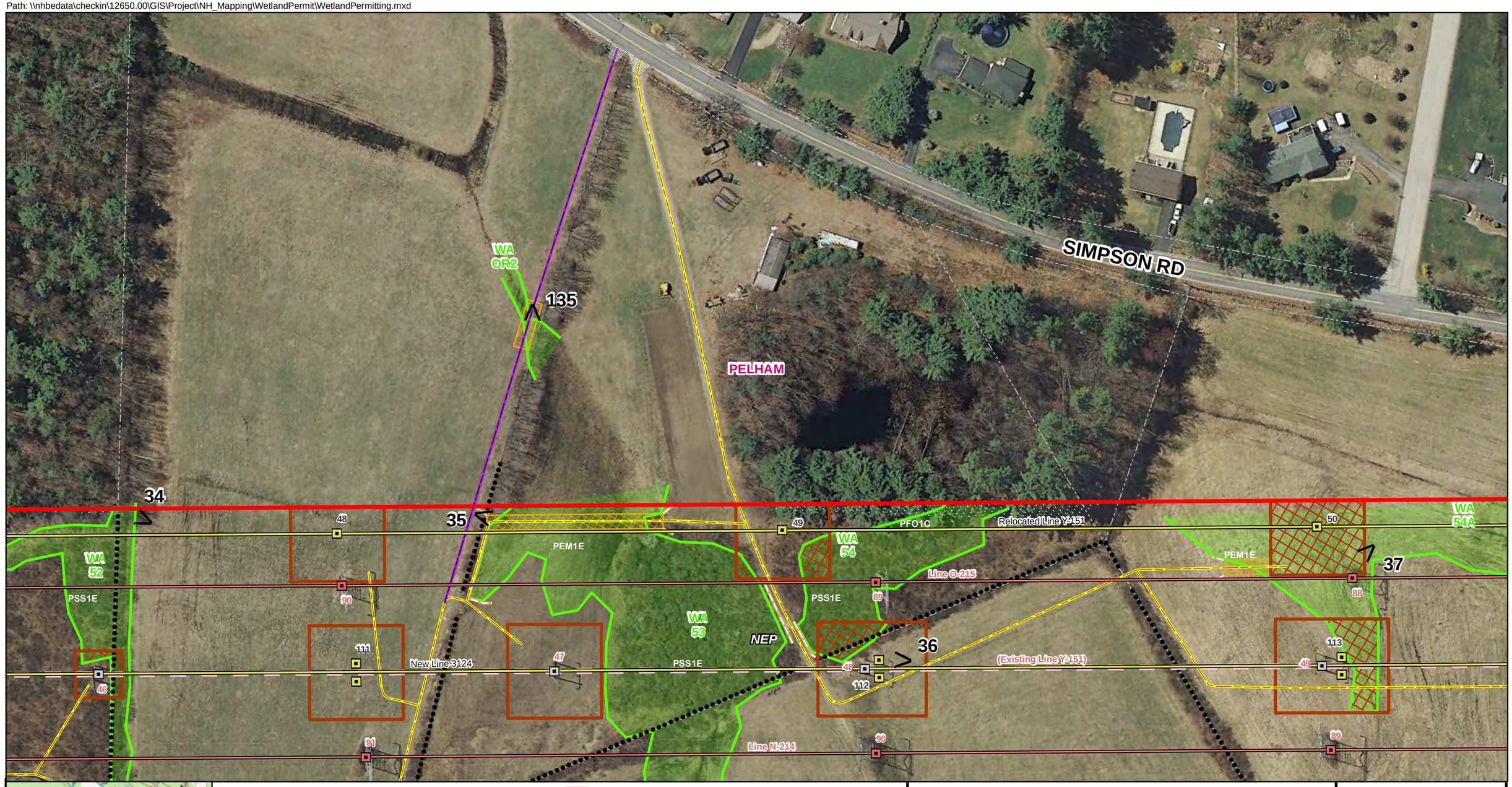

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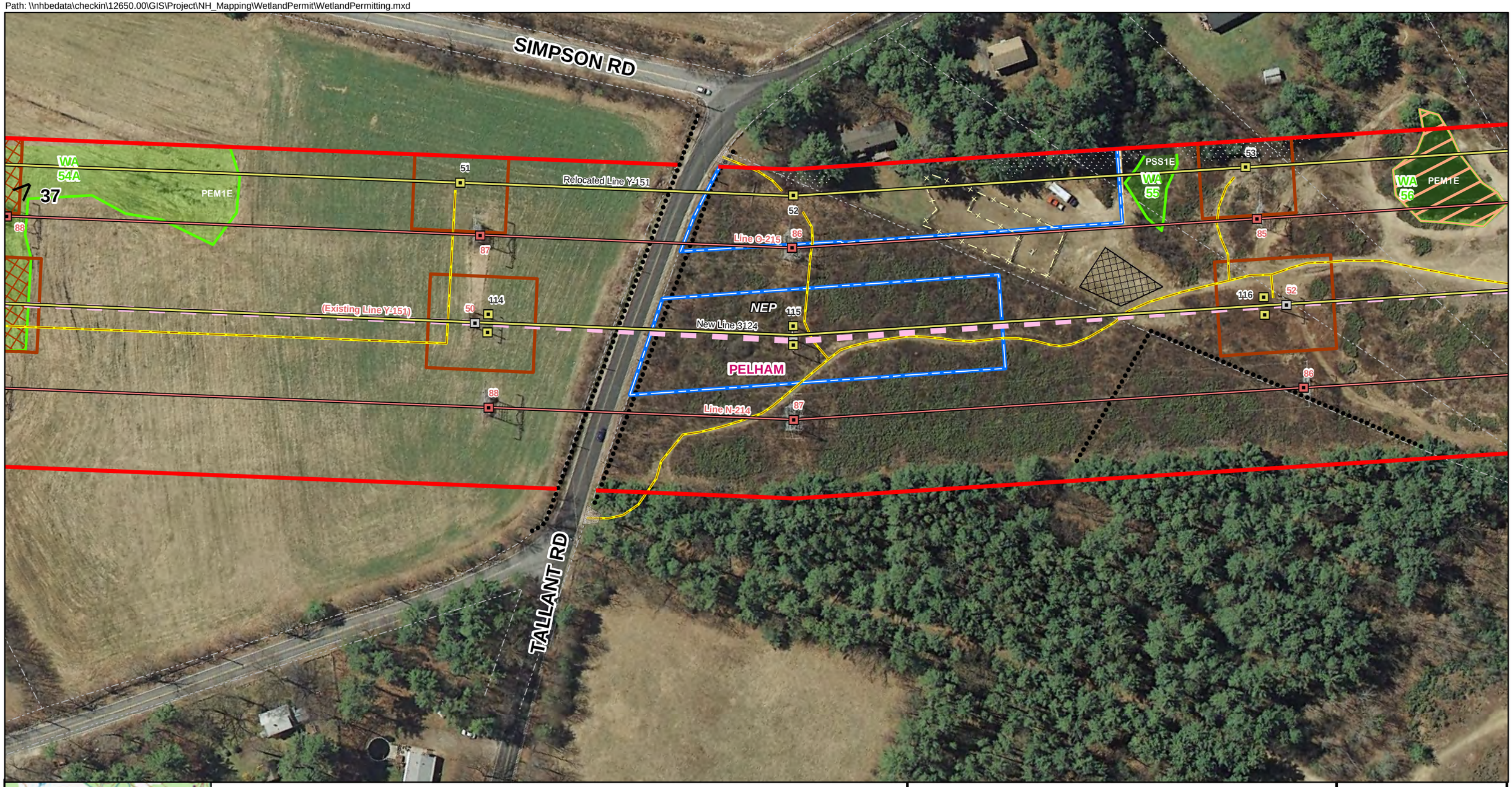

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TALLANT RD

PELHAM

SA-15

SA-16

Relocated Line Y-151

PSS1E

WA 56

WA 57

WA 58

WA 58A

WA 59

WA 59A

PEM1E

PUBH

PSS/EM1E

R2UB2

R4SB4/5

Line O-215

New Line 3124

(Existing Line Y-151)

Line N-214

NEP

54

55

56

53

117

118

119

83

84

85

82

39

38

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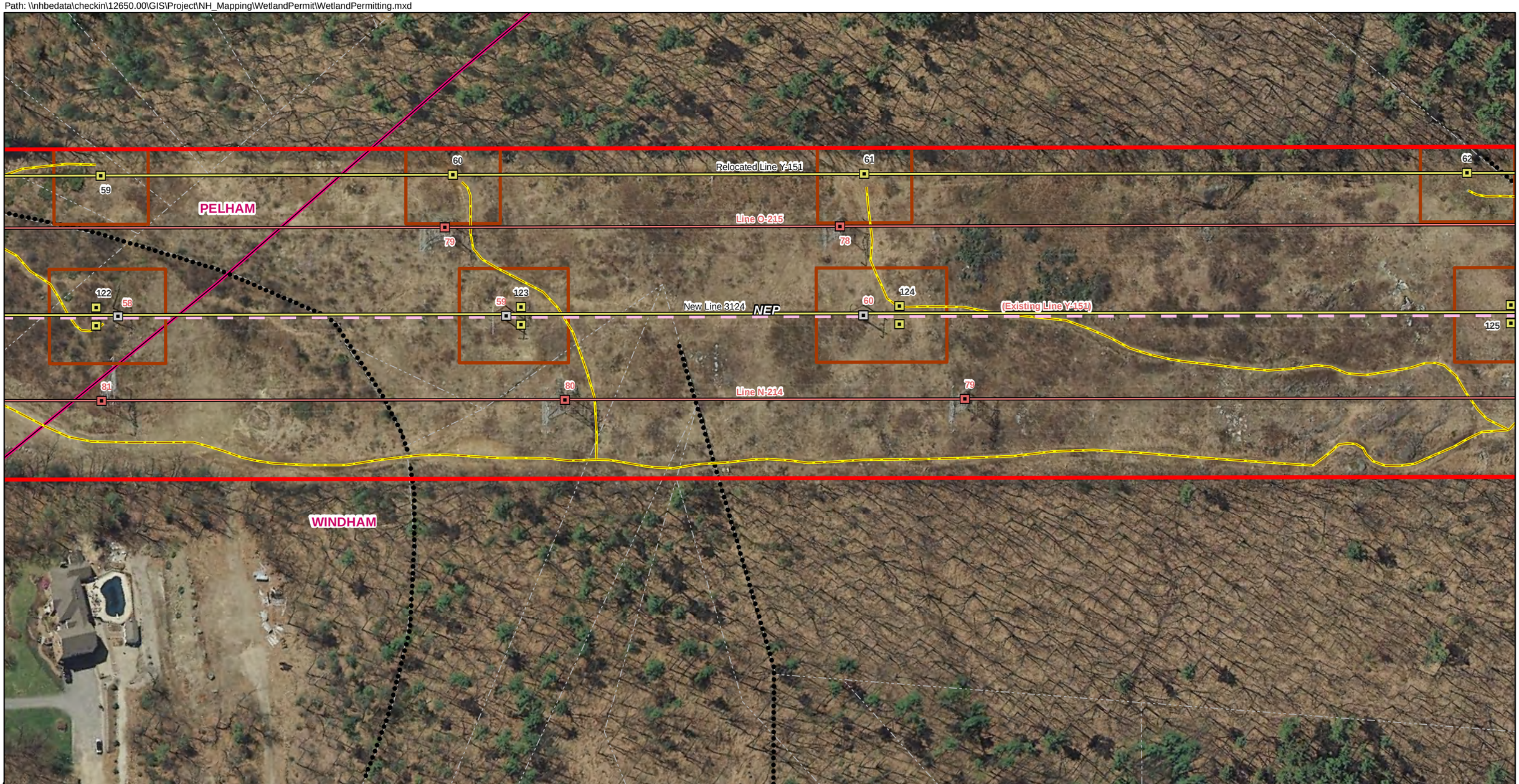

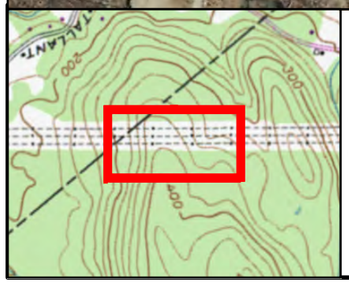

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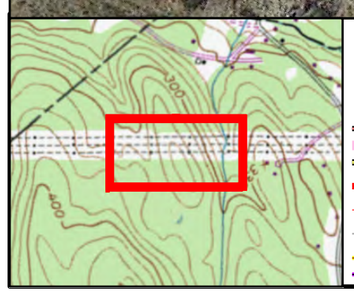

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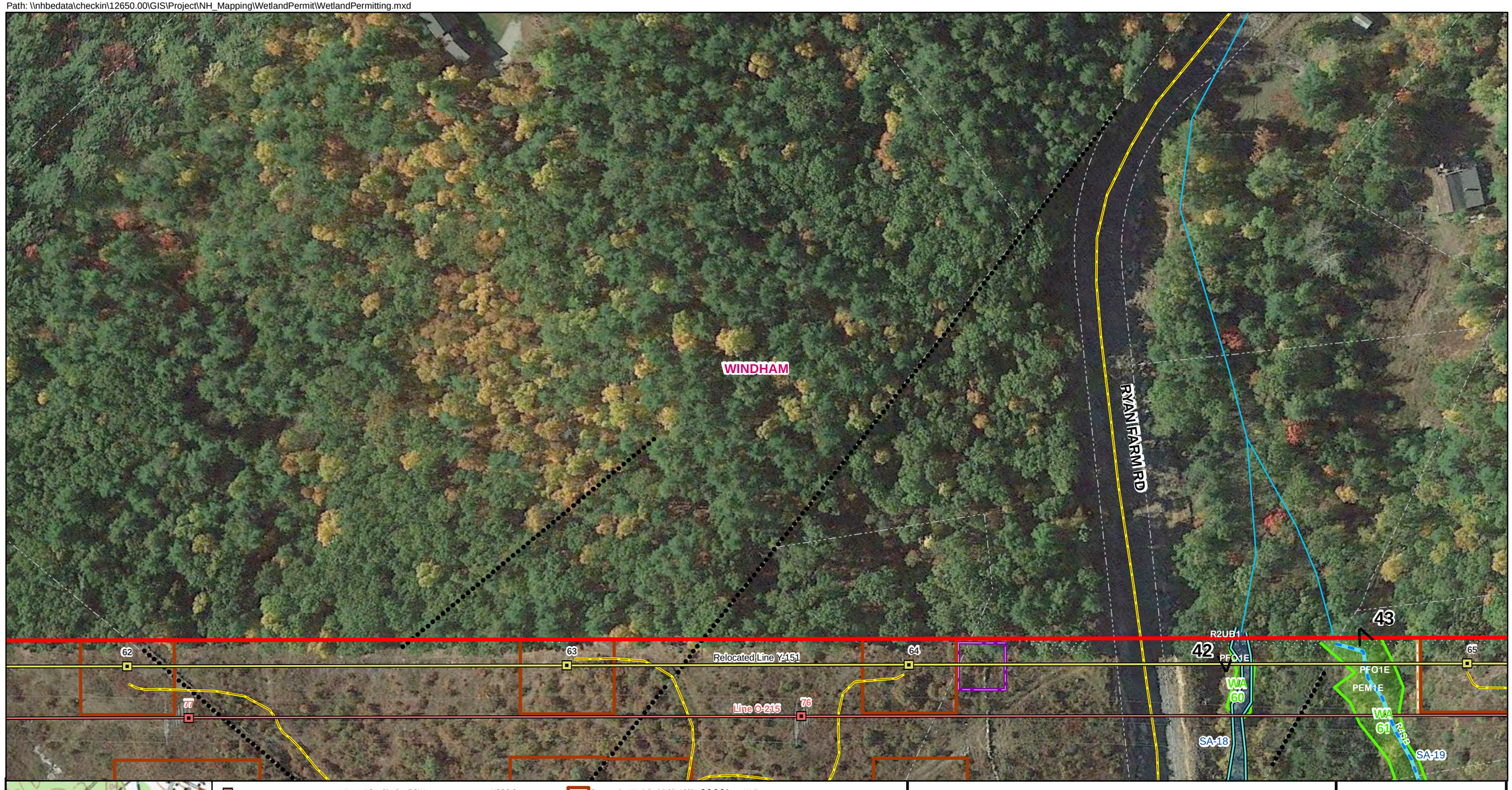

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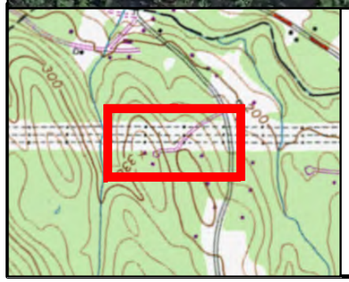

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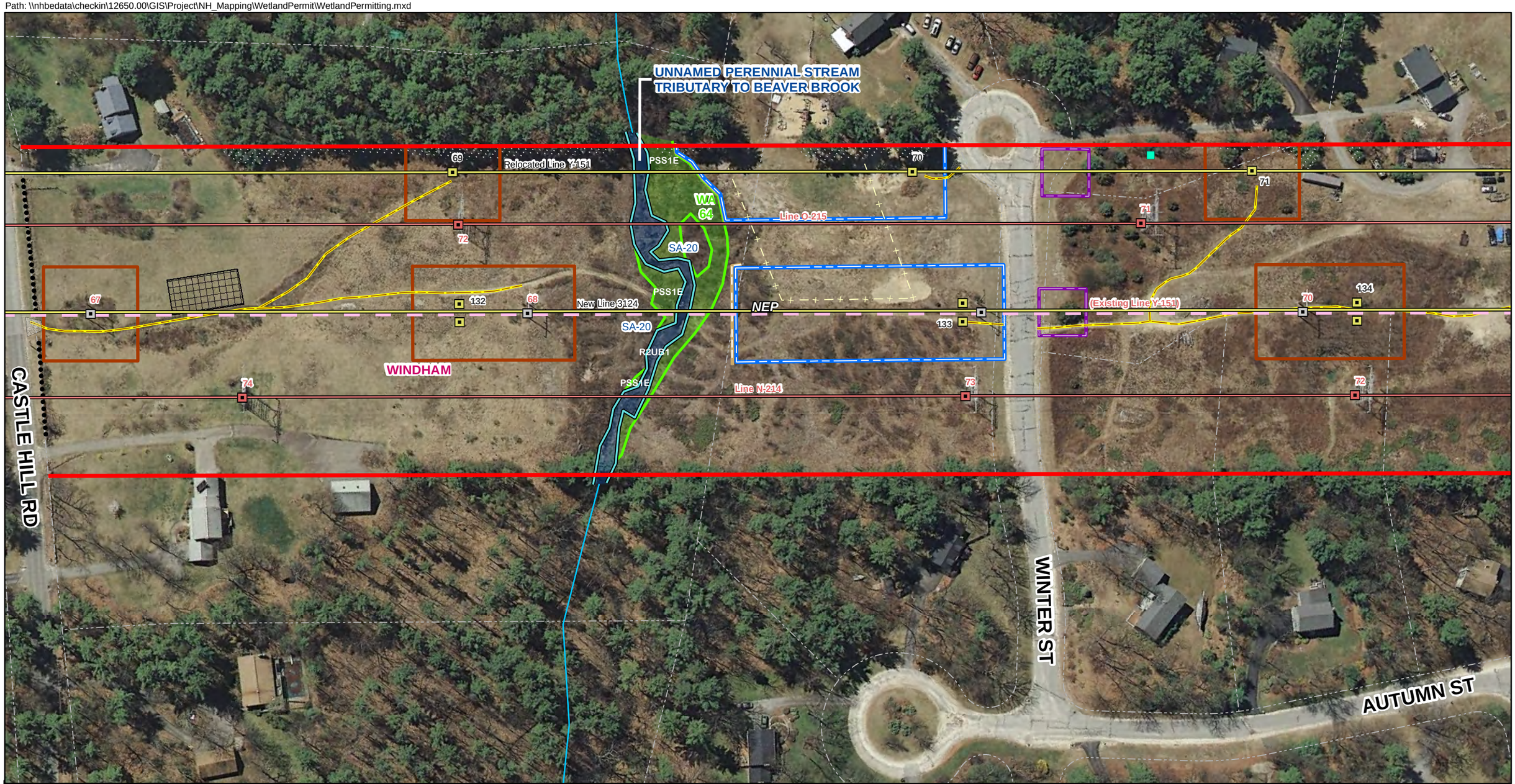

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PELHAM
BEAVER BROOK
SA-21
SA-21
Existing Bridge
Not Suitable for Vehicles
MAMMOTH RD (RTE 128)
72
Relocated Line Y-151
73
74
45
WA
65
Line O-215
69
70
RASP314
135
New Line 3124
71
NEP
(Existing Line Y-151)
72
136
73
SA-22
71
Line N-214
70
WA
66
PSS1E
WINDHAM
PSS1E
UNNAMED INTERMITTENT STREAM
TRIBUTARY TO BEAVER BROOK
AUTUMN ST

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Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
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Source:
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Beals & Thomas,Eversource,Normandeau

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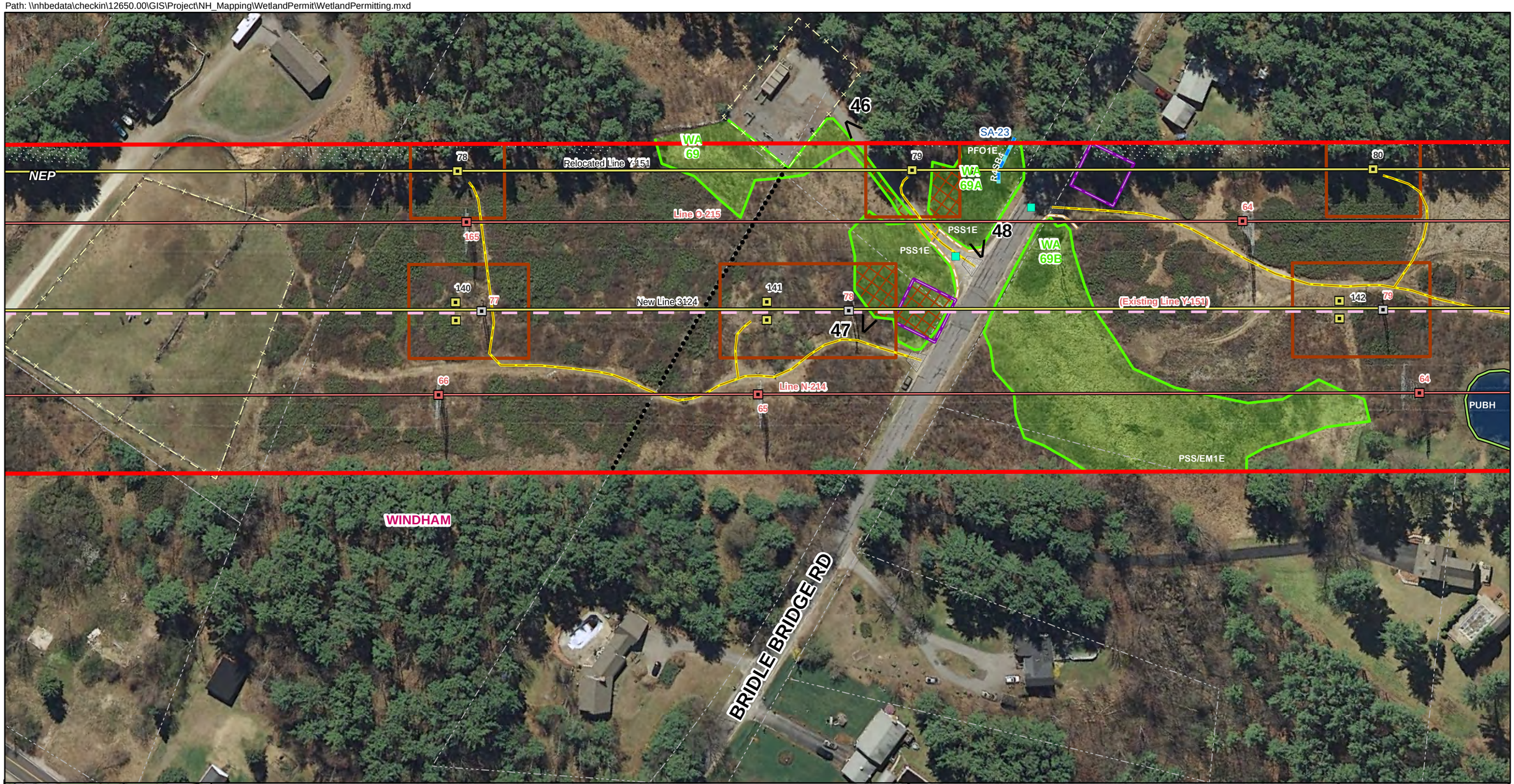

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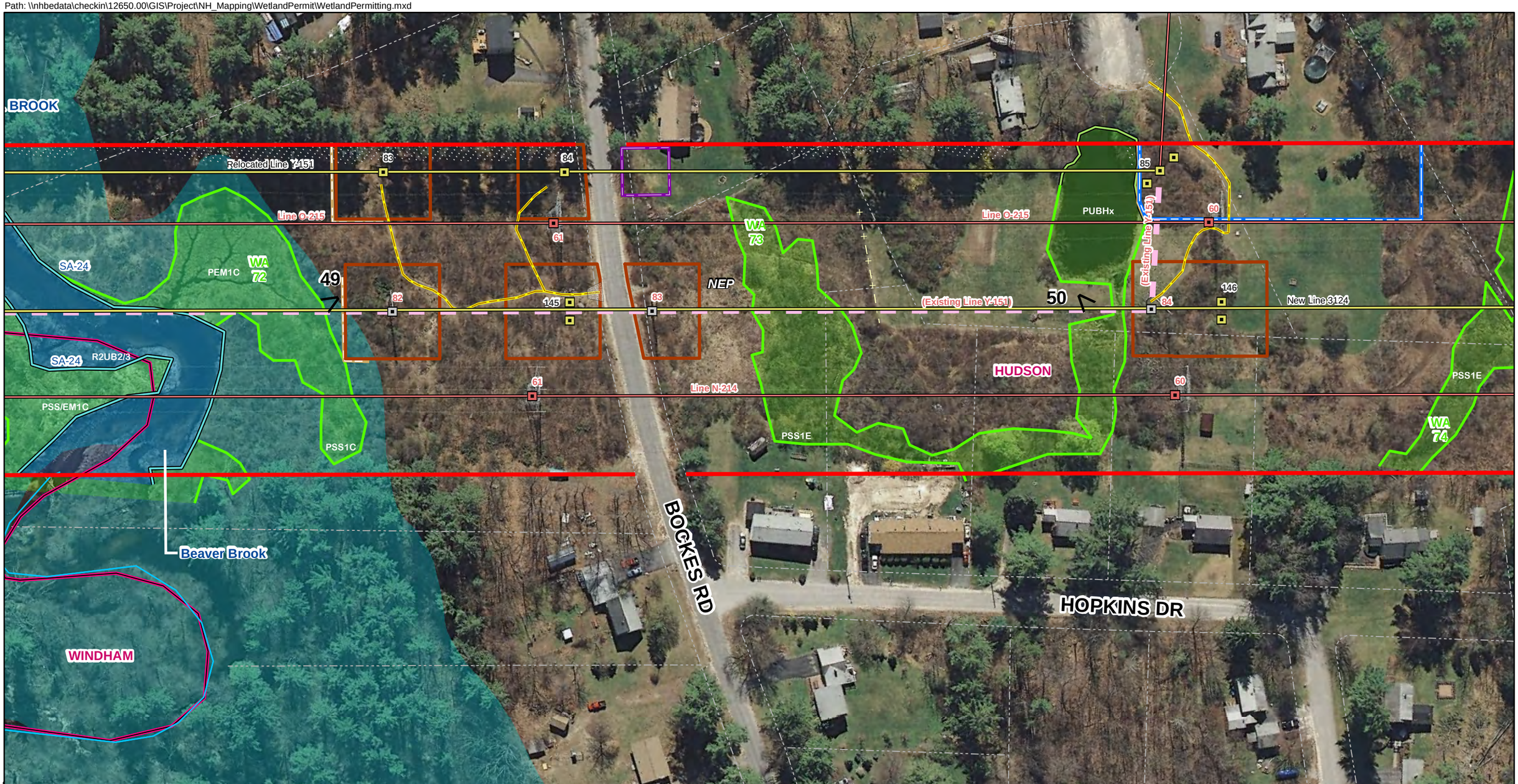

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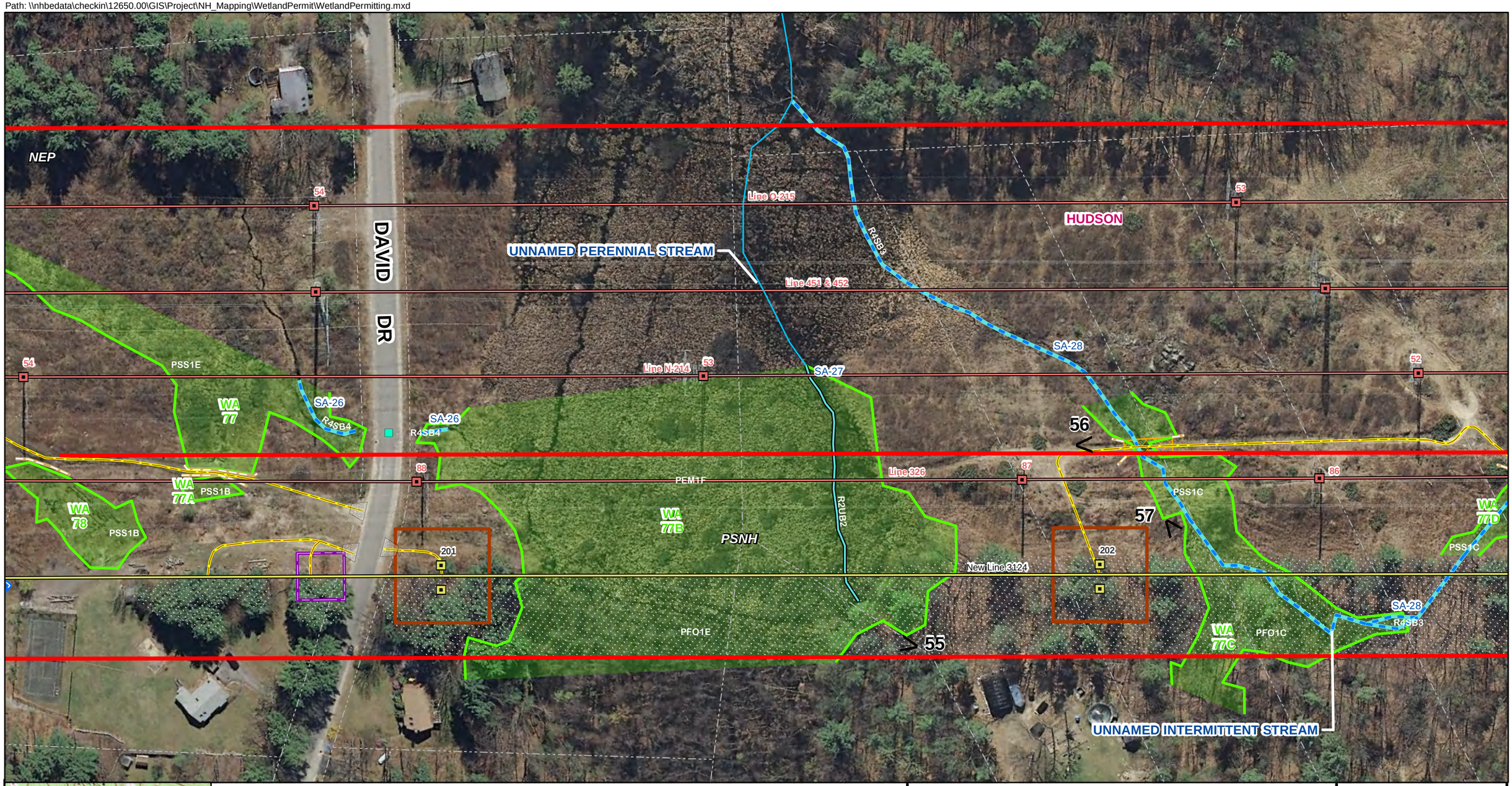

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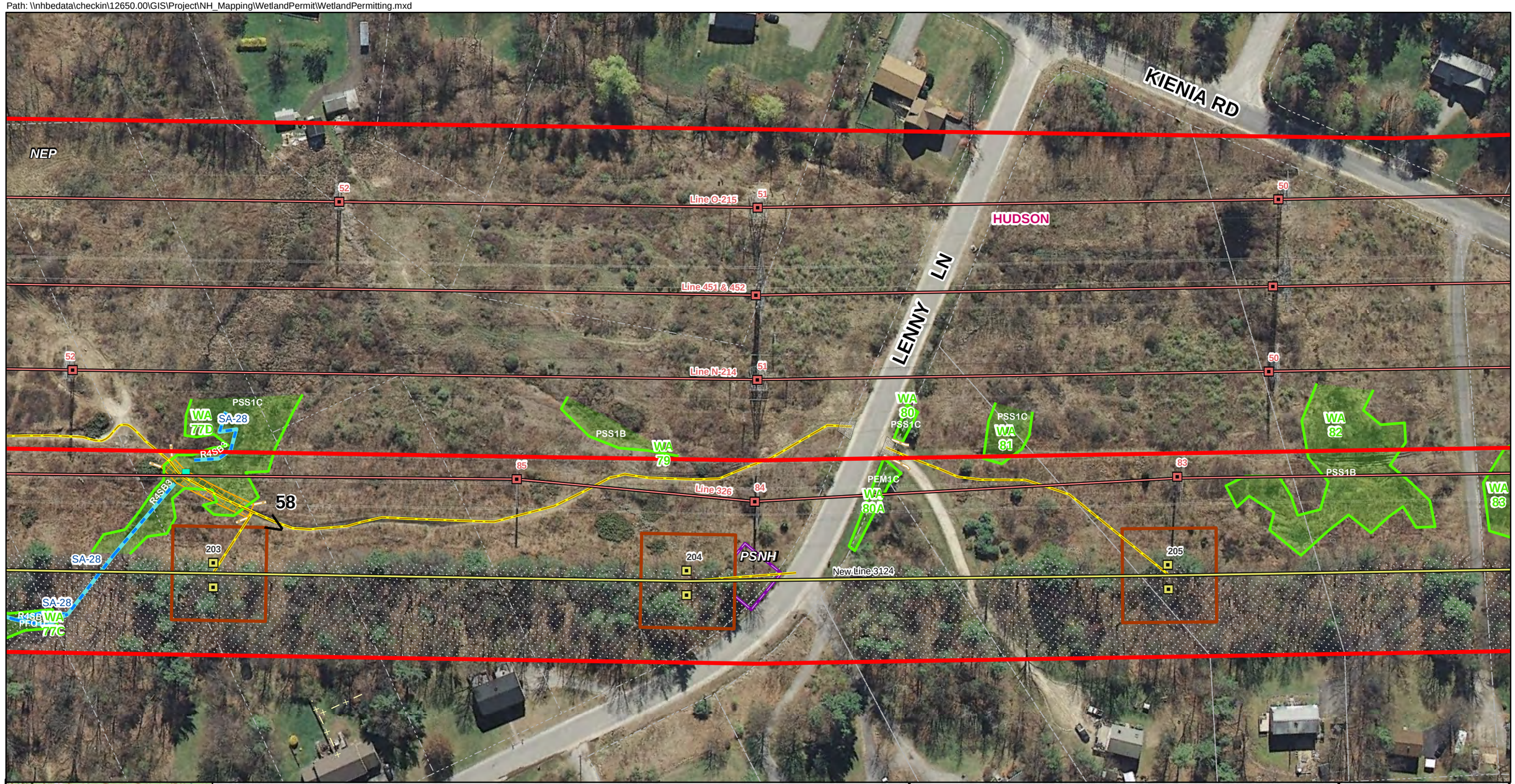

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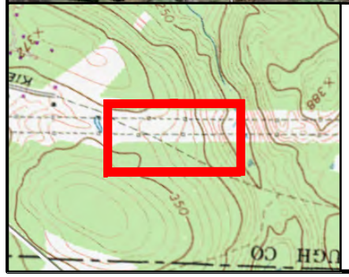

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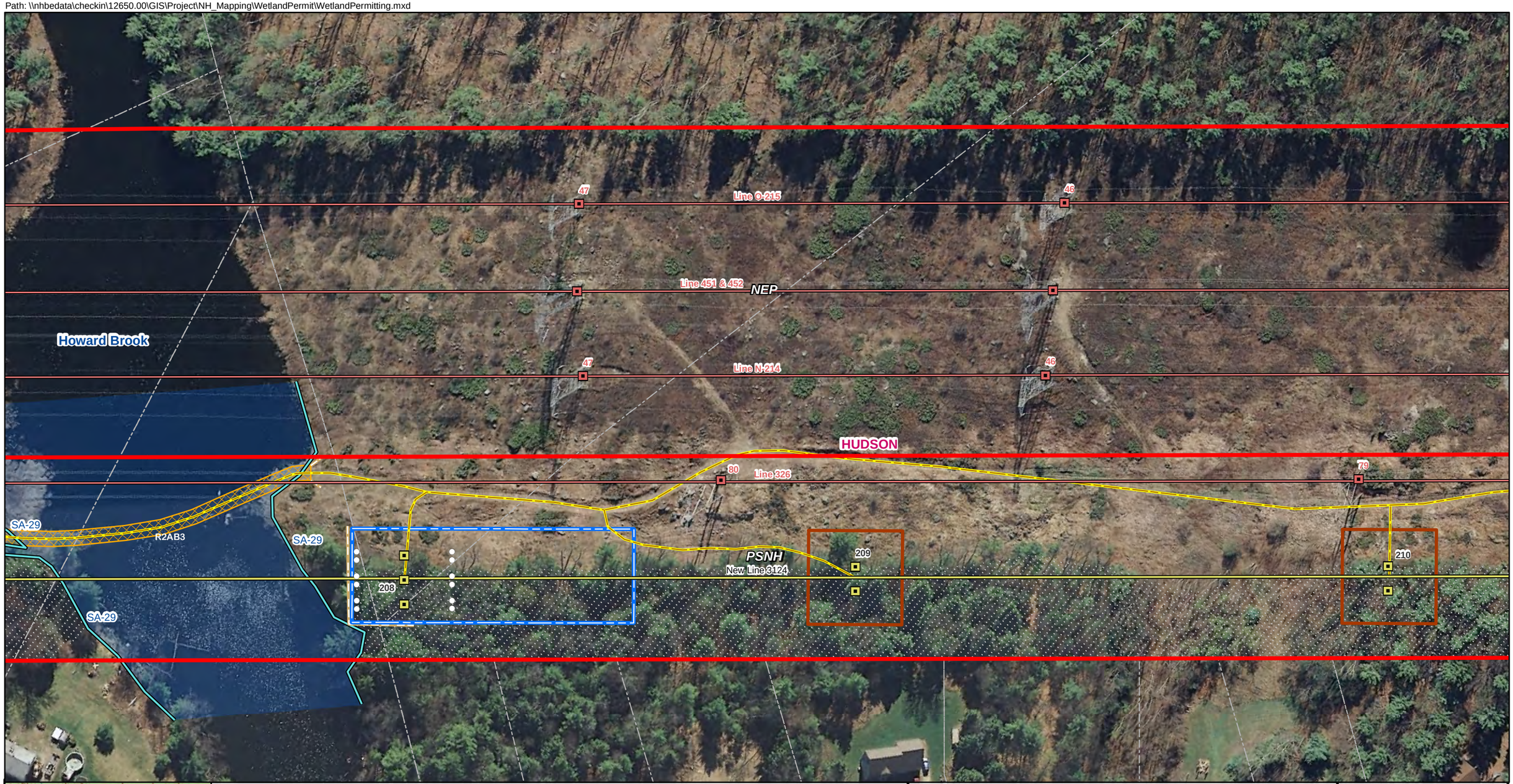

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45 44 43 Line O-215 Line 451 & 452 NEP Line N-214 WA 86 HUDSON 79 78 77 Line 326 PSS1E PSS1B 210 211 212 New Line 3124 PSNH PFO1E PFO1B 59 60 BOYD RD

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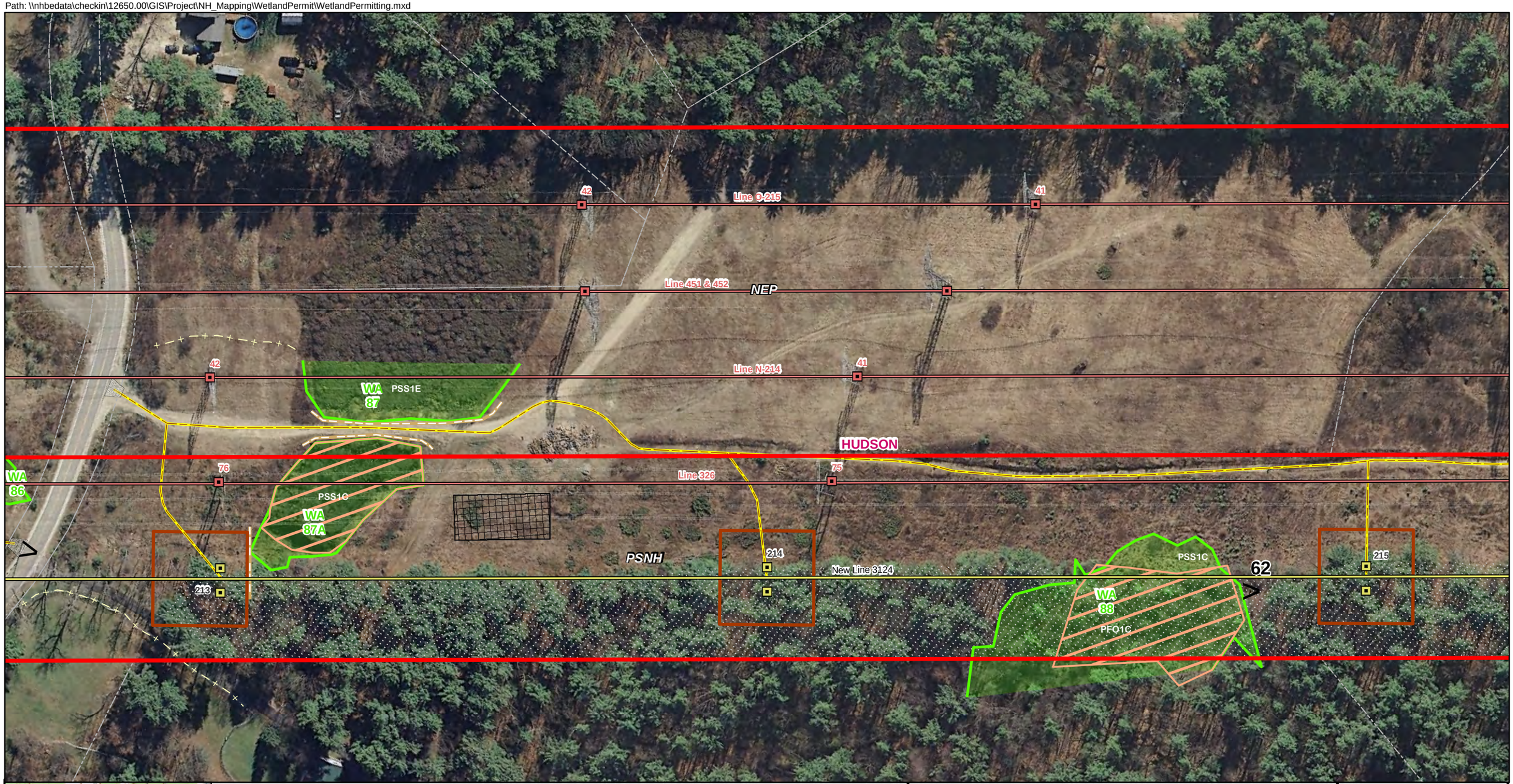

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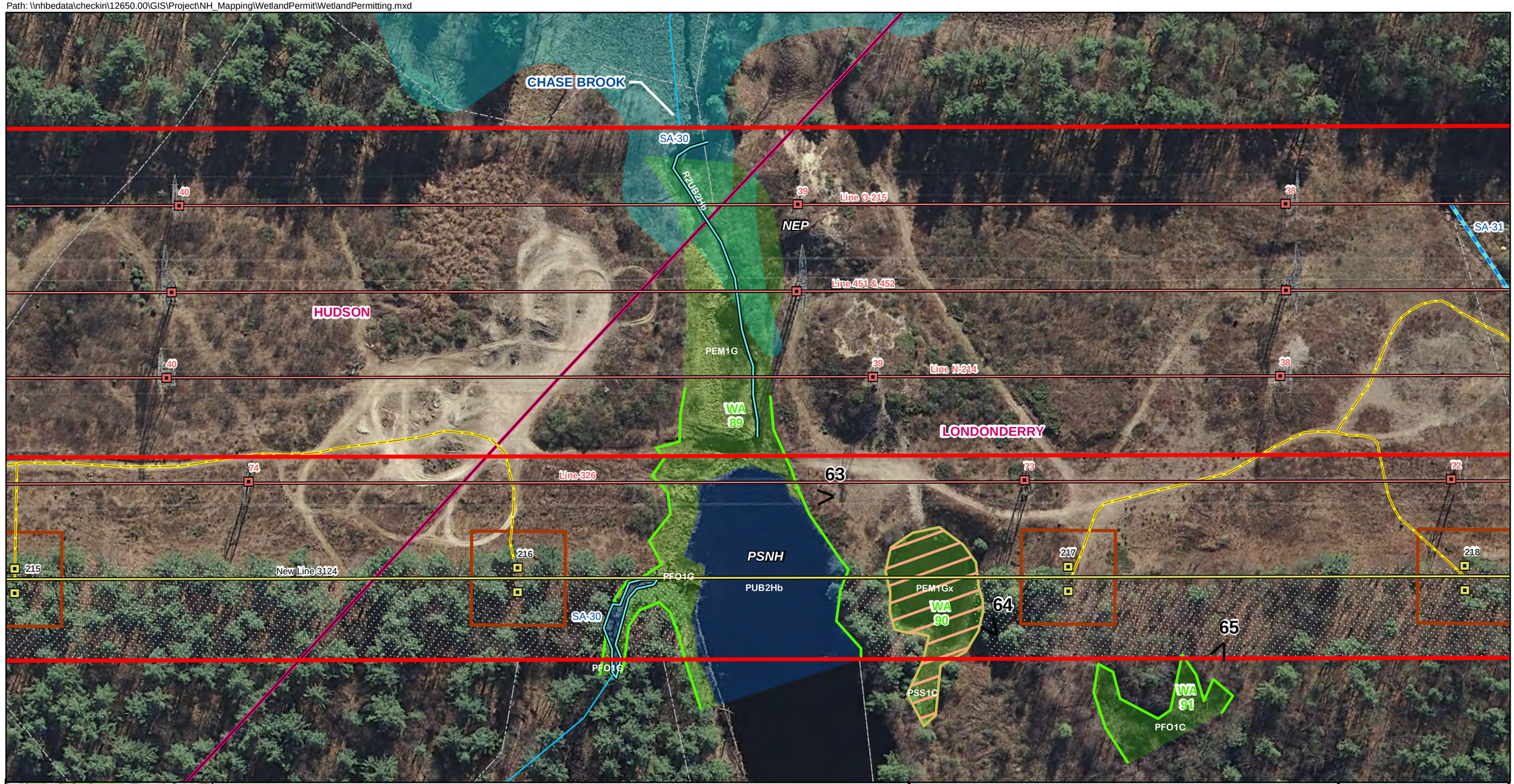

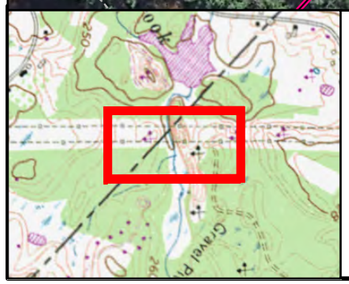

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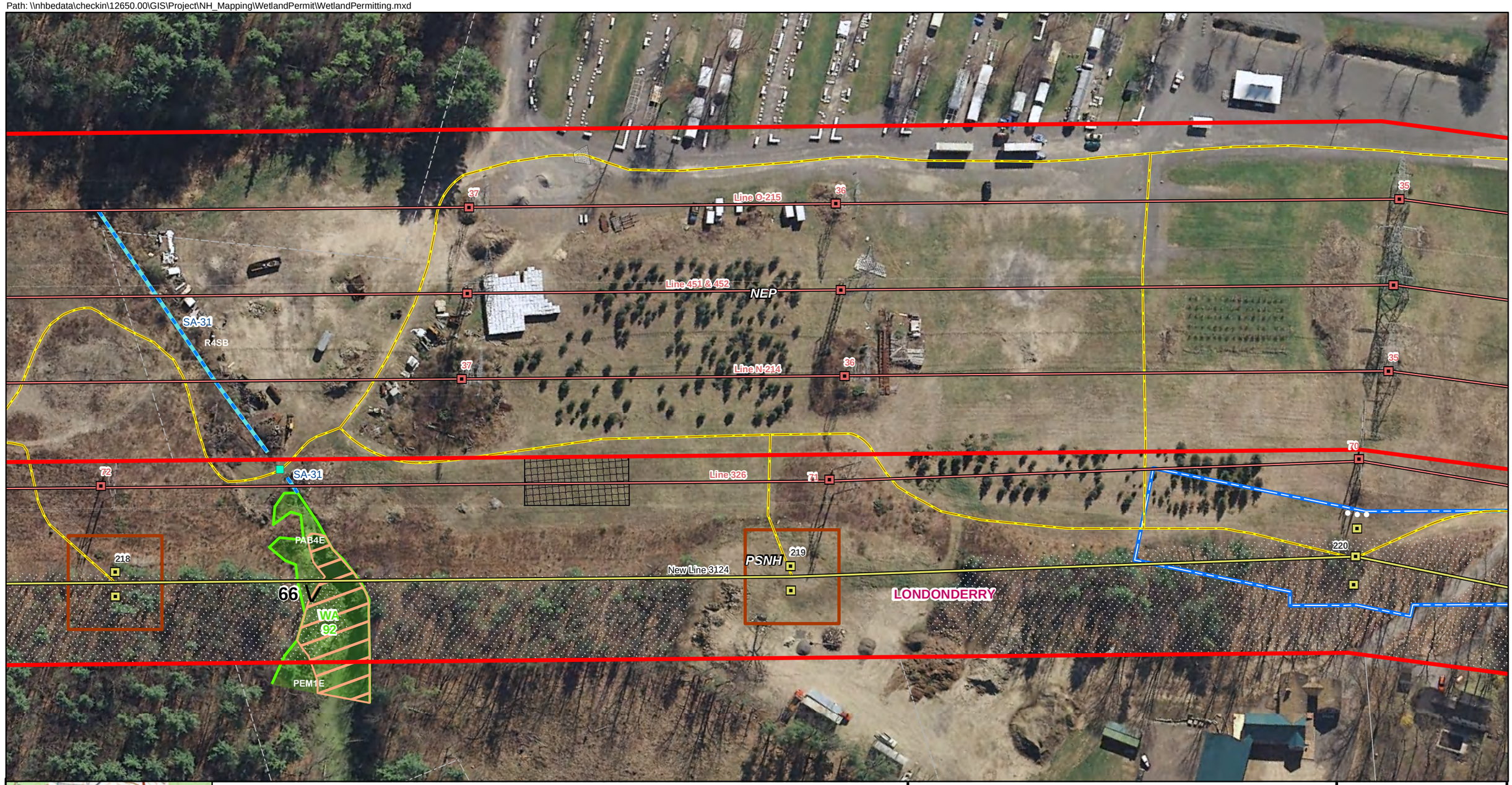

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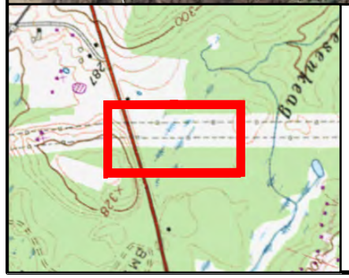

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0 50 100 200
Feet

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Merrimack Valley Reliability Project
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Source:
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Beals & Thomas,Eversource,Normandeau

Date: 7/6/2015

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NESENKEAG BROOK
NEP
32
Line 0-215
31
LONDONDERRY
R2UB2
Line 451 & 452
38
Line N-214
37
36
WA 93
71
PEM/SS1F
WA 100
PSS1C
PEM1E
WA 102B
PEM1F
WA 96
PSS1C
67
72
Line 326
66
65
WA 95
70
WA 97
SA-32
PEM/SS1E
WA 100A
PEM/SS1C
WA 102
PSS1C
223
PEM1H
WA 98
PSNH
New Line 3124
224
225
WA 94
69
PFO1C
73
74
WA 101
75
76
PFO1C
WA 102A
PAB3G
77
78
PFO1C
WA 99
PFO1B
PFO1E

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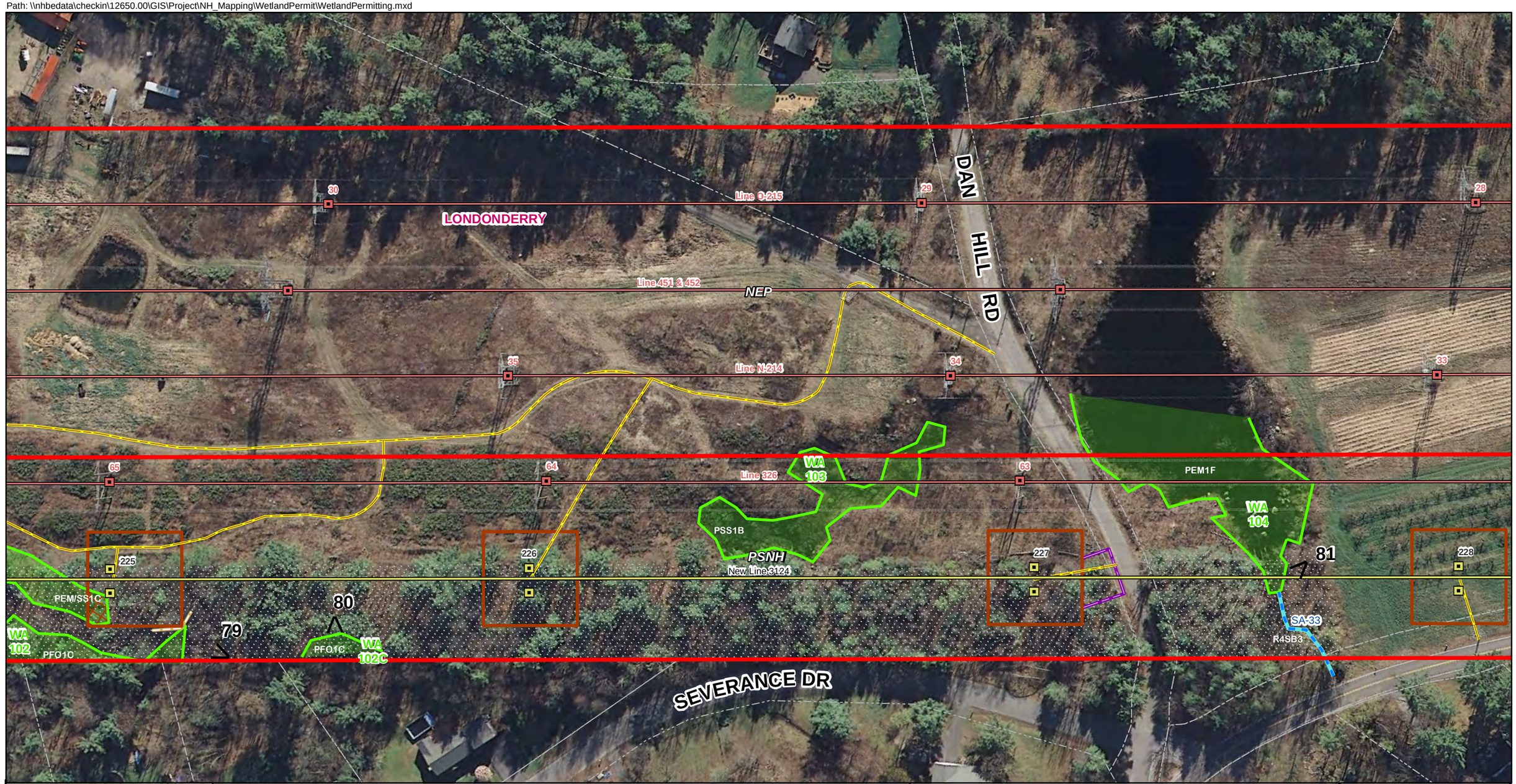

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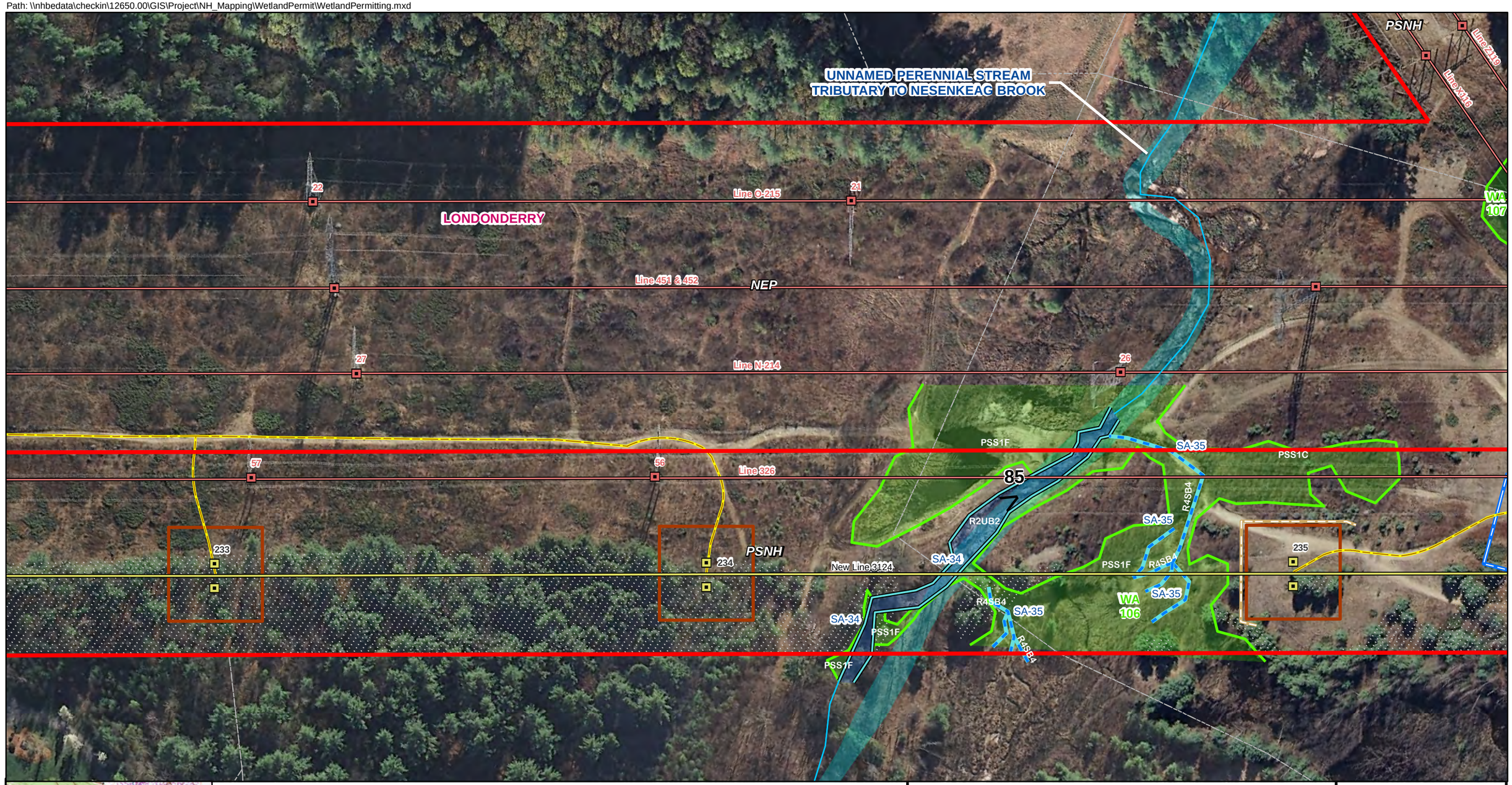

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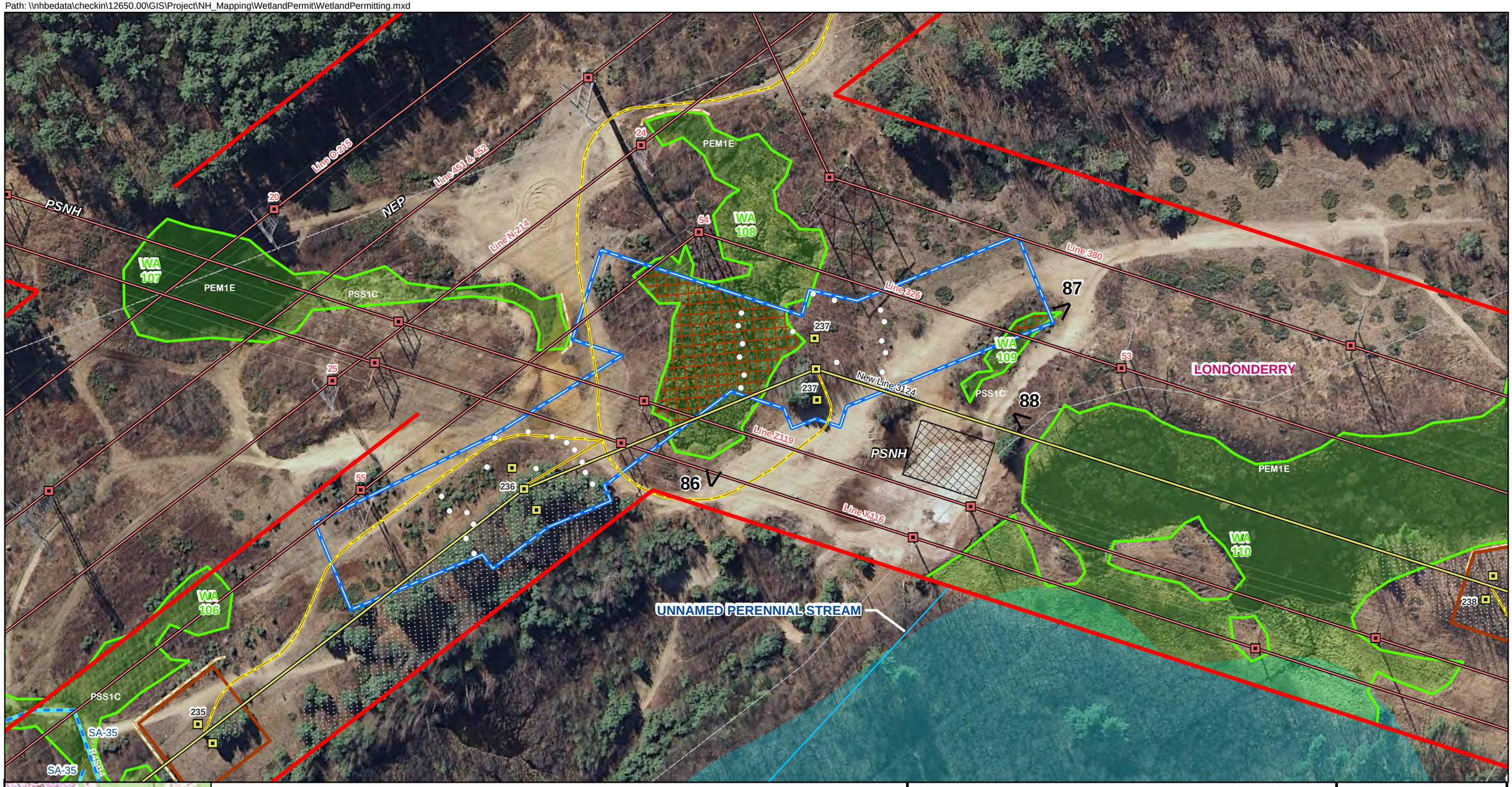

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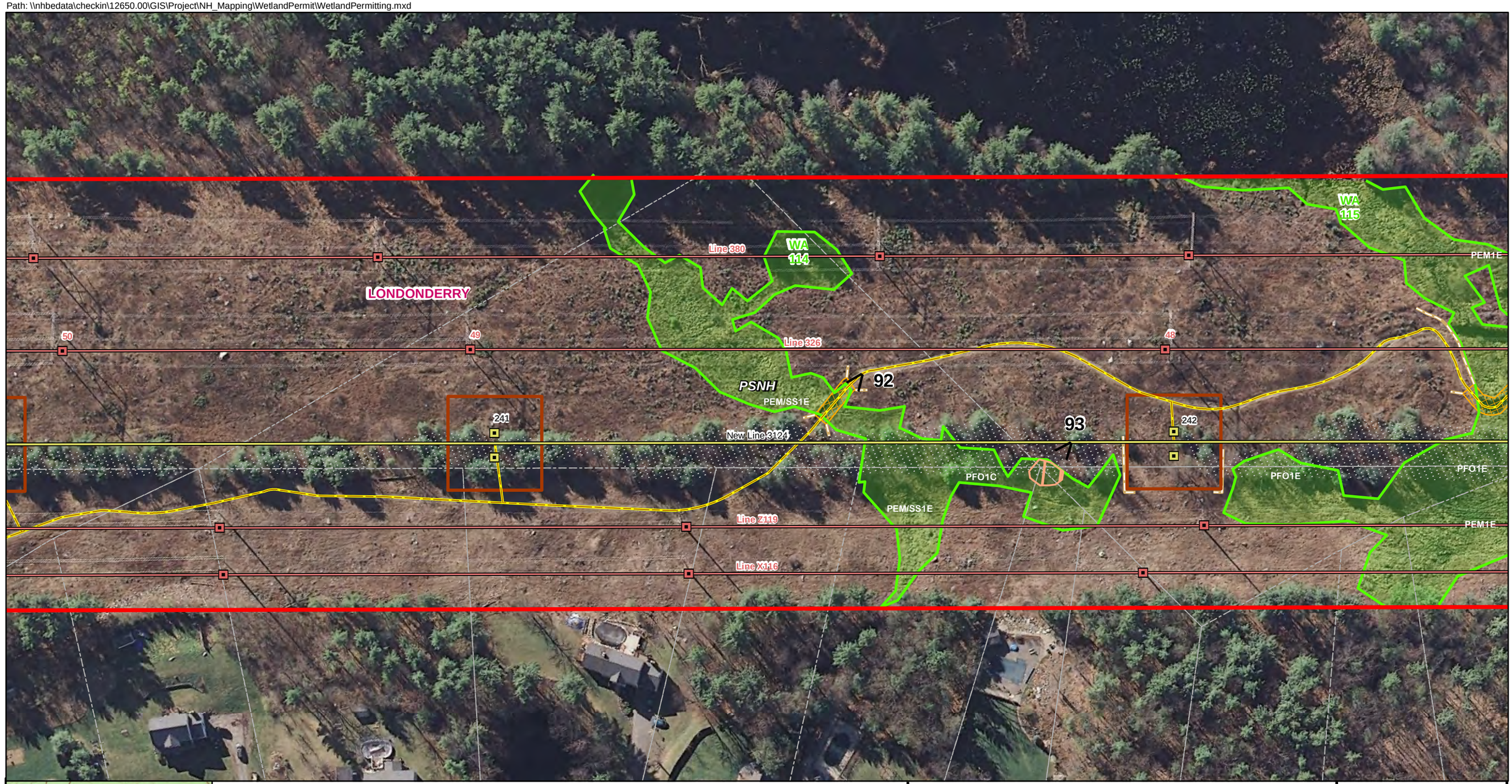

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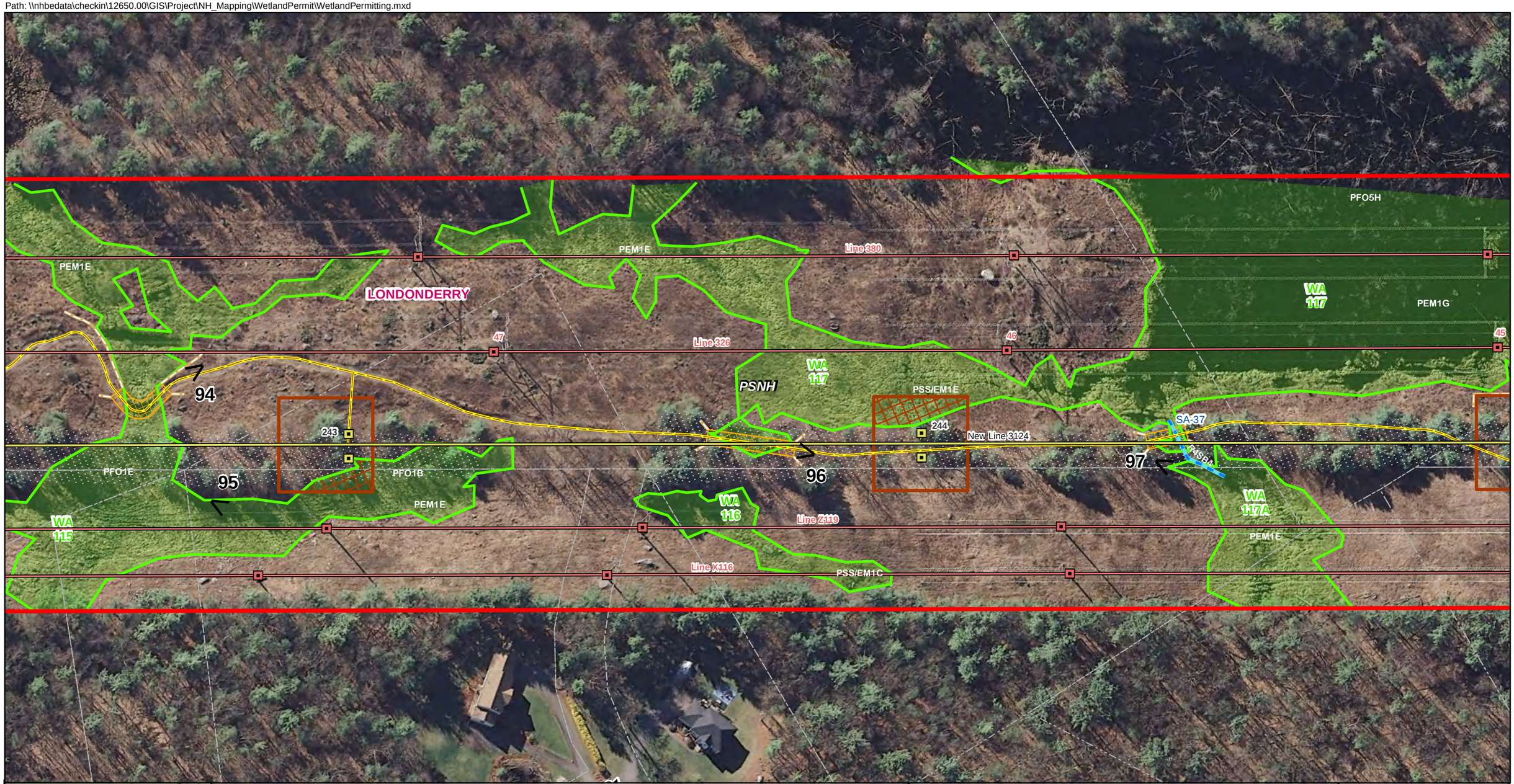

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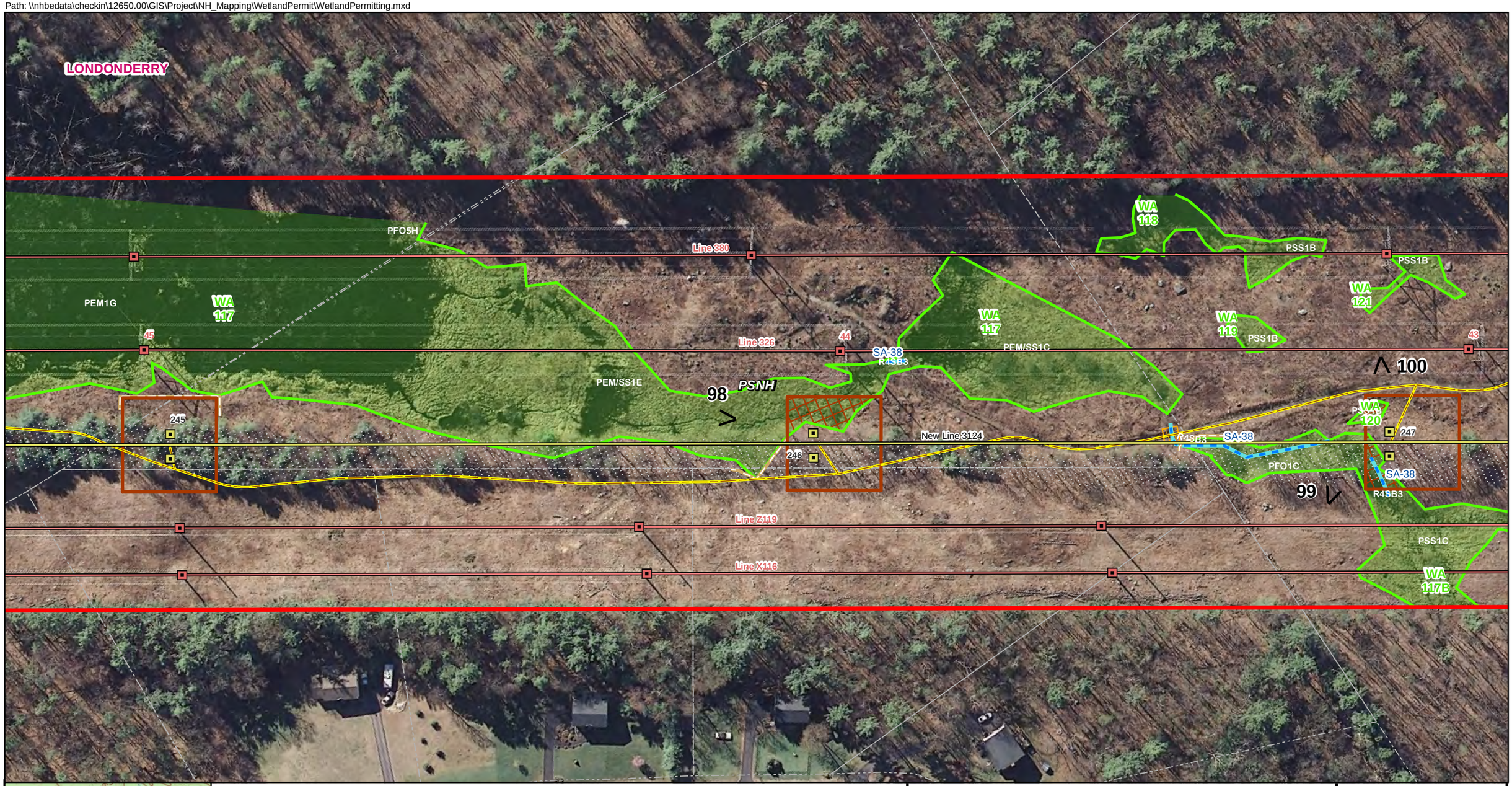

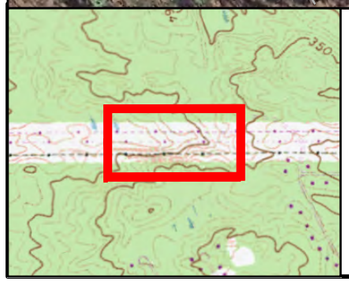

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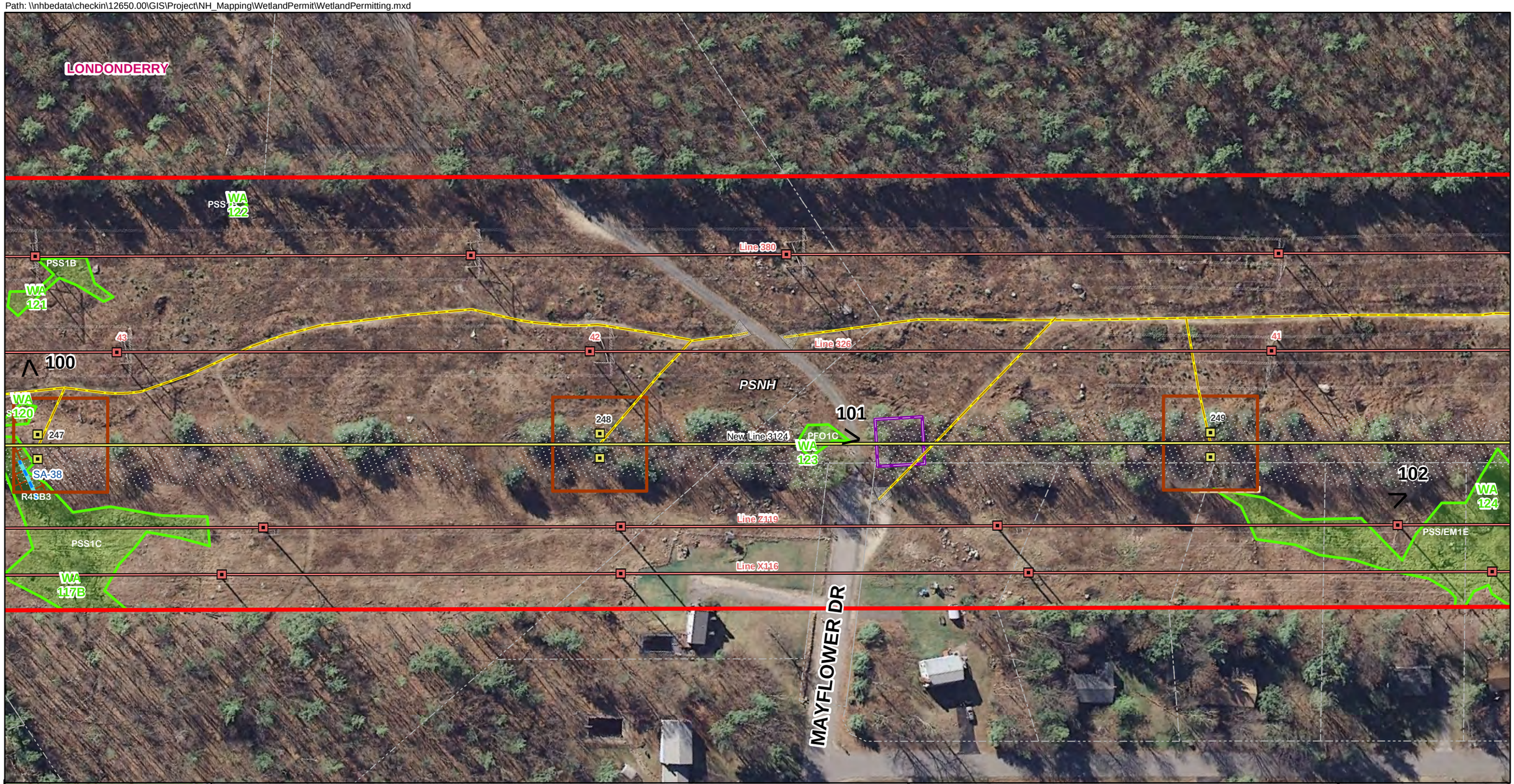

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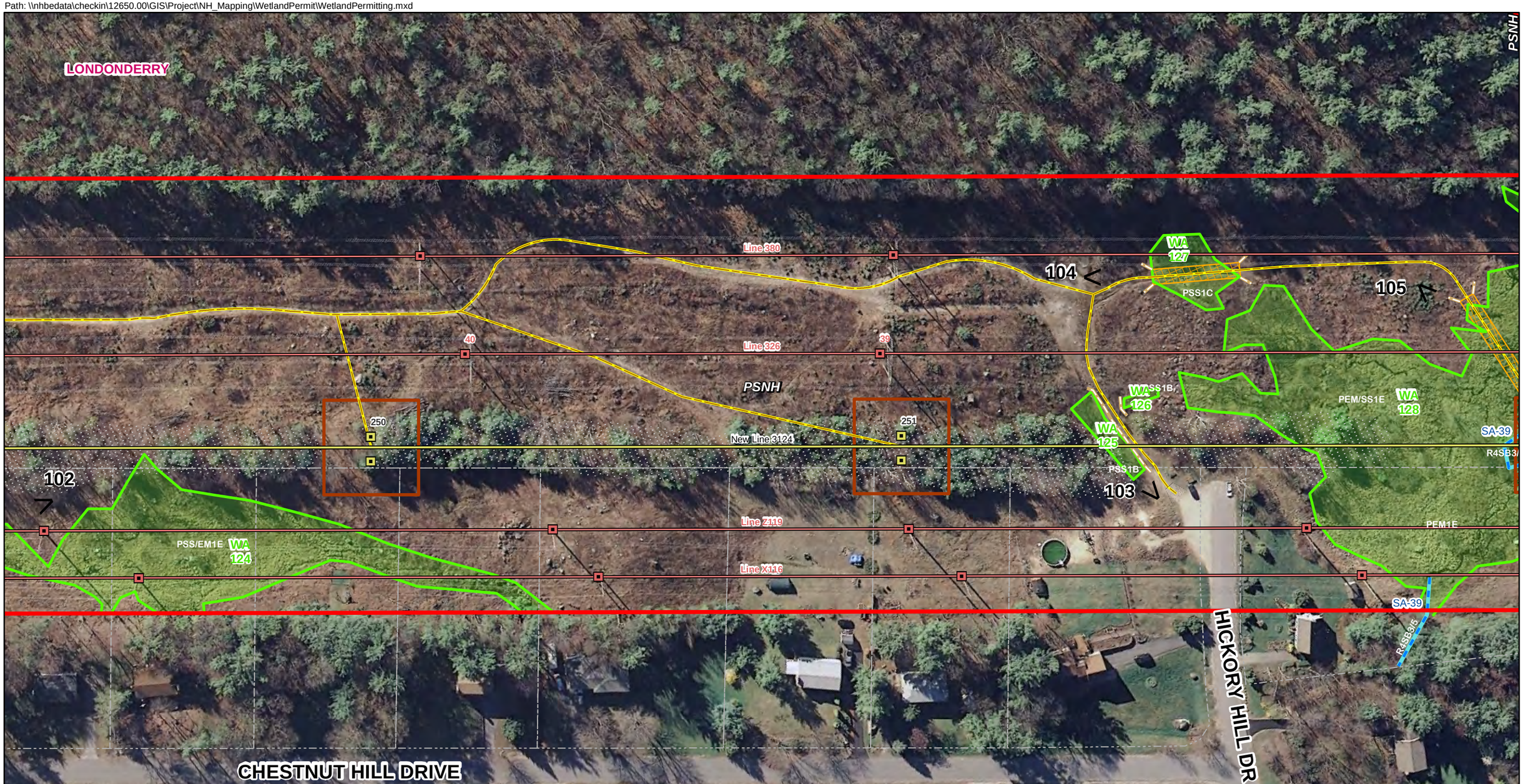

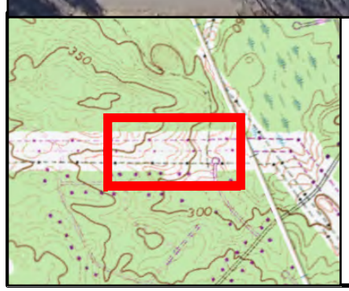

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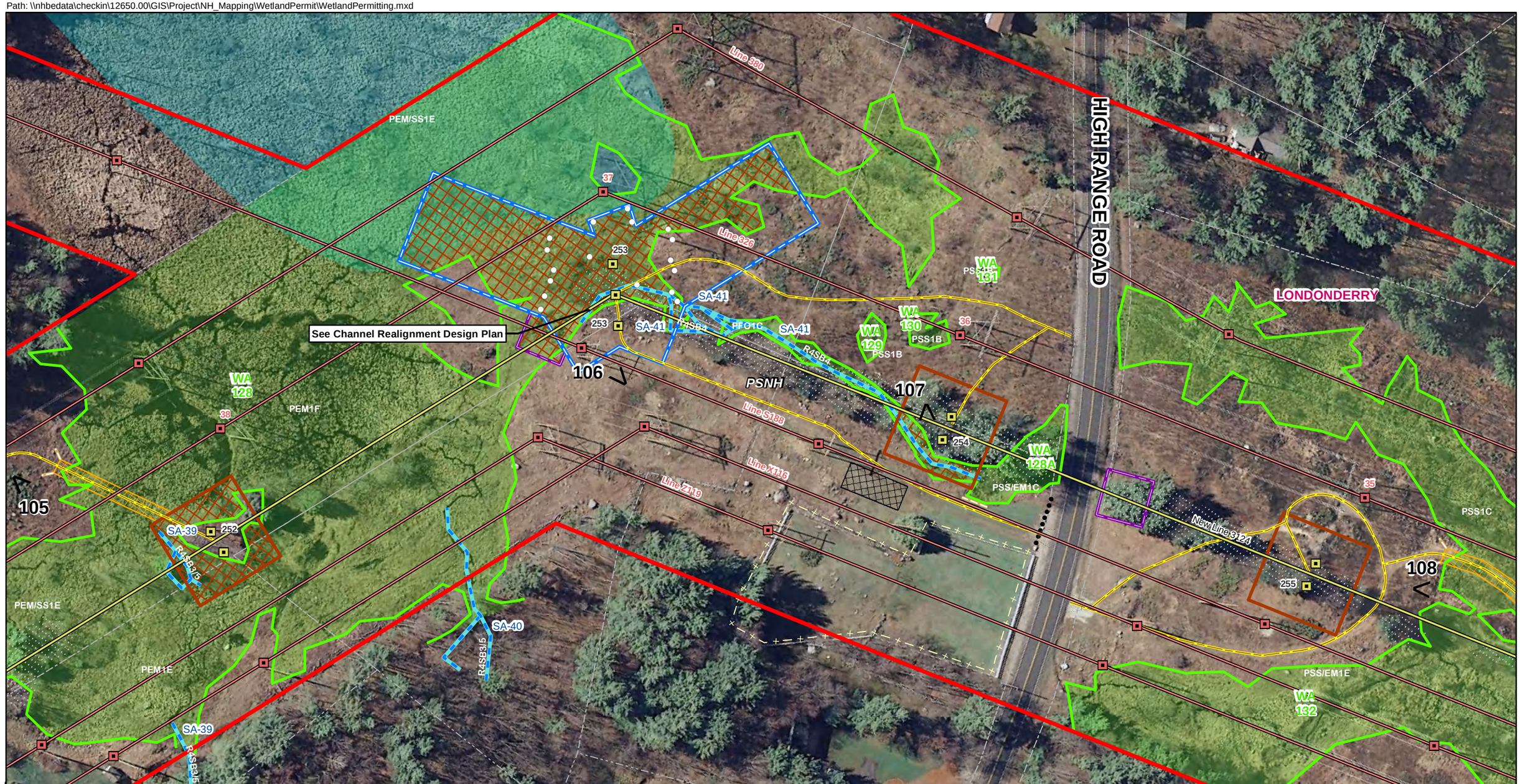

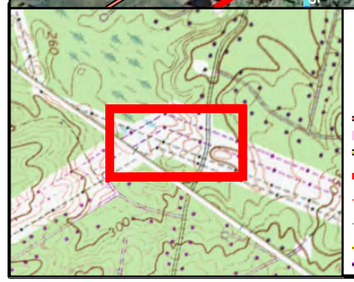

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Swamp Mat Access
Proposed Permanent Crossing
Laydown Area
Stone Apron
Culvert
Fence

Stone Wall
Erosion Control
Tree Clearing Area
Photo Location
Town Boundary

1 Inch = 100 Feet
0 50 100 200
Feet

Wetland Permitting Plan Set
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

Source:
NGRID,Black & Veatch,VHB,
Beals & Thomas,Eversource,Normandeau

Date: 7/6/2015

nationalgrid

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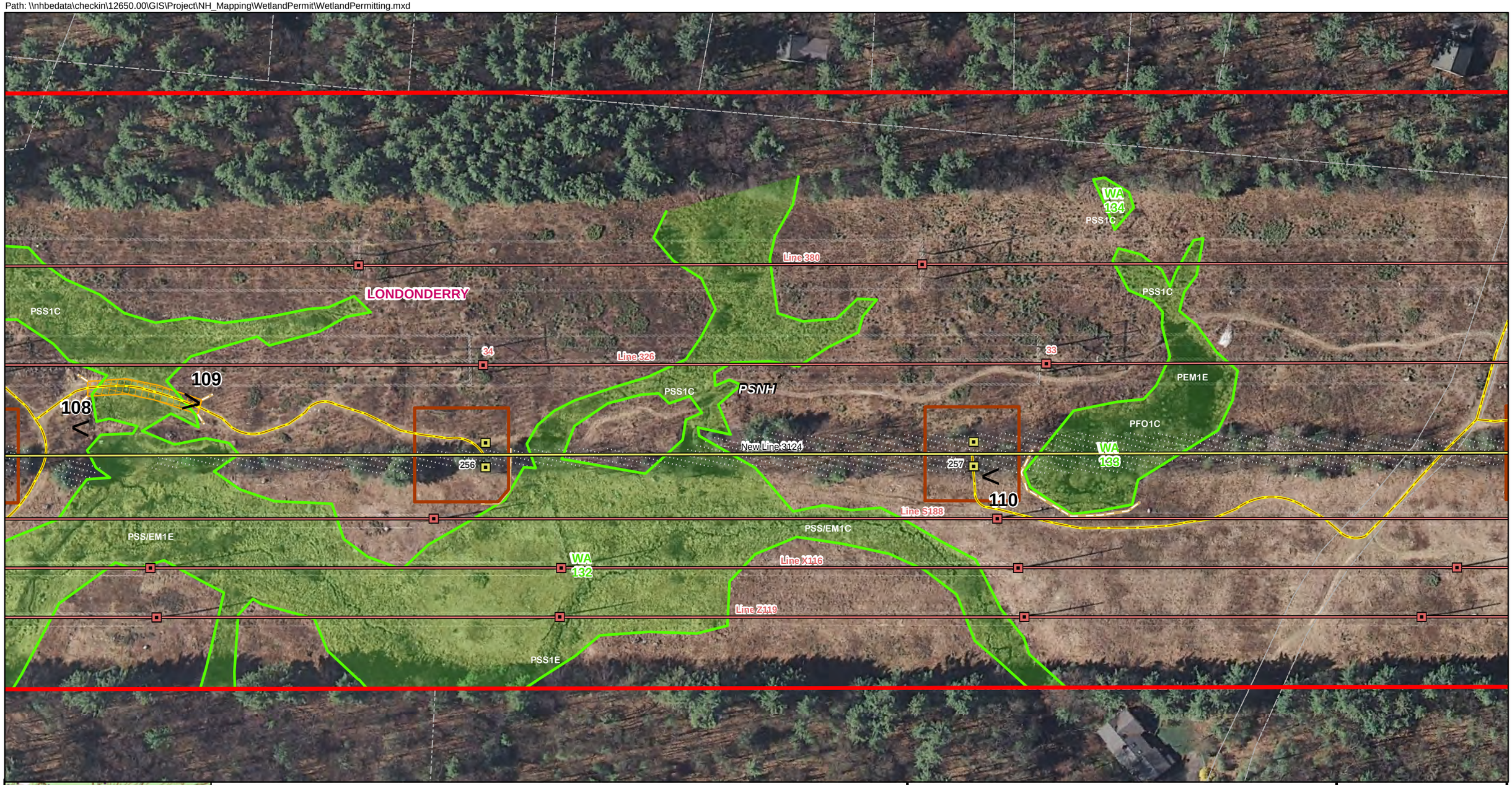

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NEP Property
Parcel Boundary
Primary Access
Alternate Access

Gas Pipeline ROW
Sewer Line ROW
Delineated Wetland Edge
Estimated Wetland Edge
Wetland Resource Area
Open Water
Vernal Pool
Delineated Perennial Stream
Delineated Intermittent Stream
Delineated Ordinary High Water

USGS Stream
NHDES Prime Wetland
FEMA 100-yr Floodplain

Construction Work Pad (100'x100')
Pull Pad Site (100'x300')
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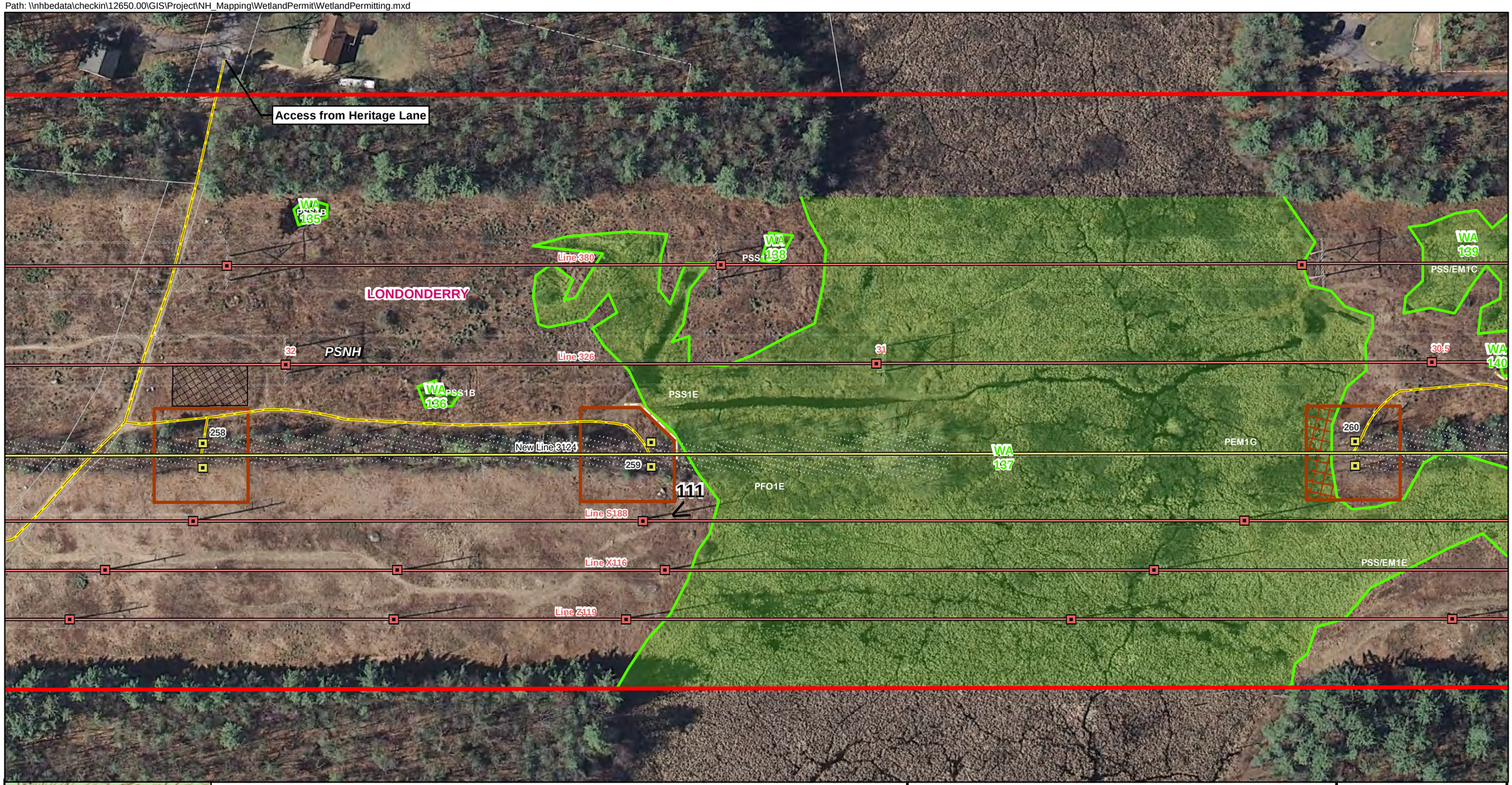

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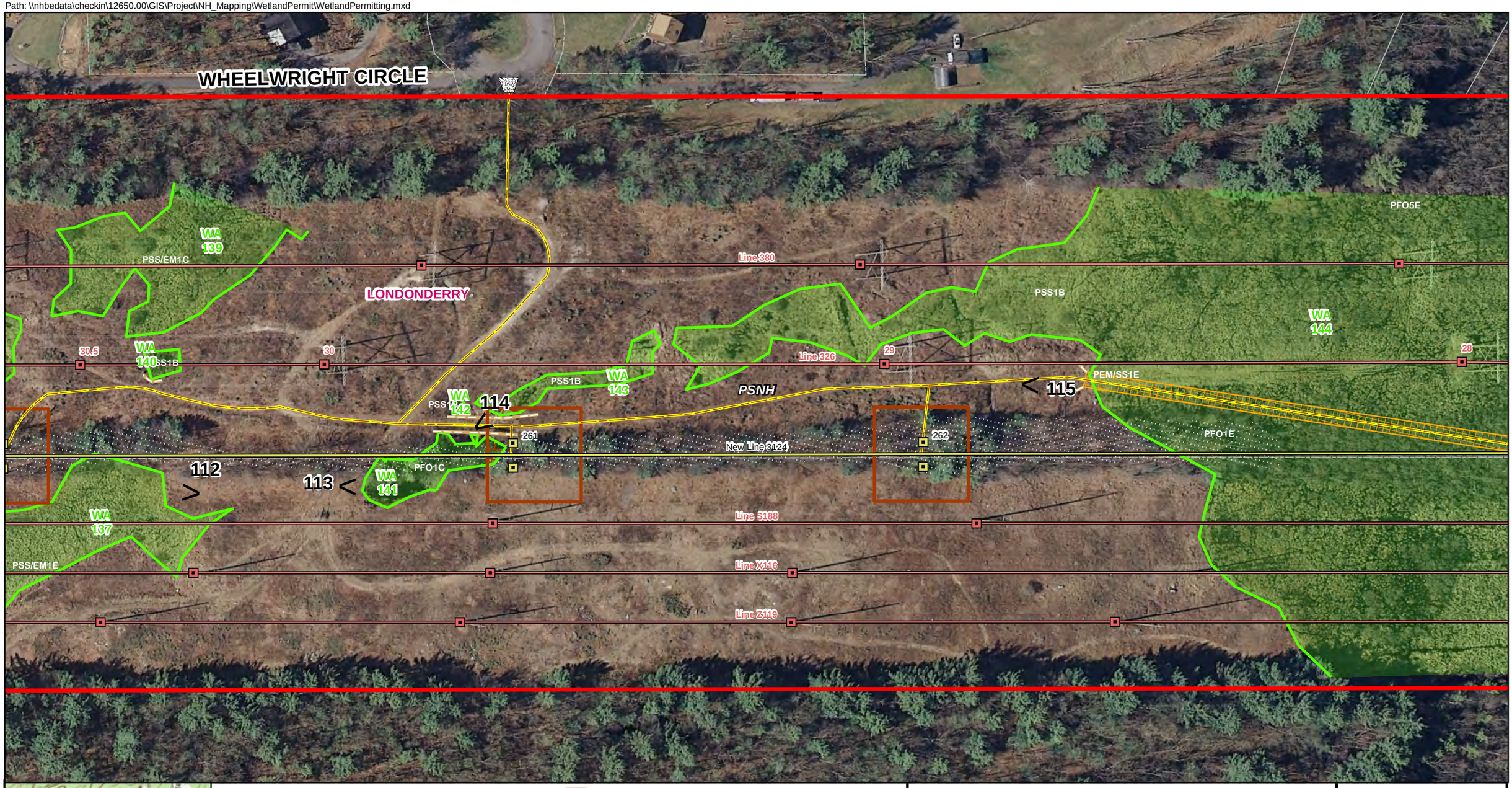

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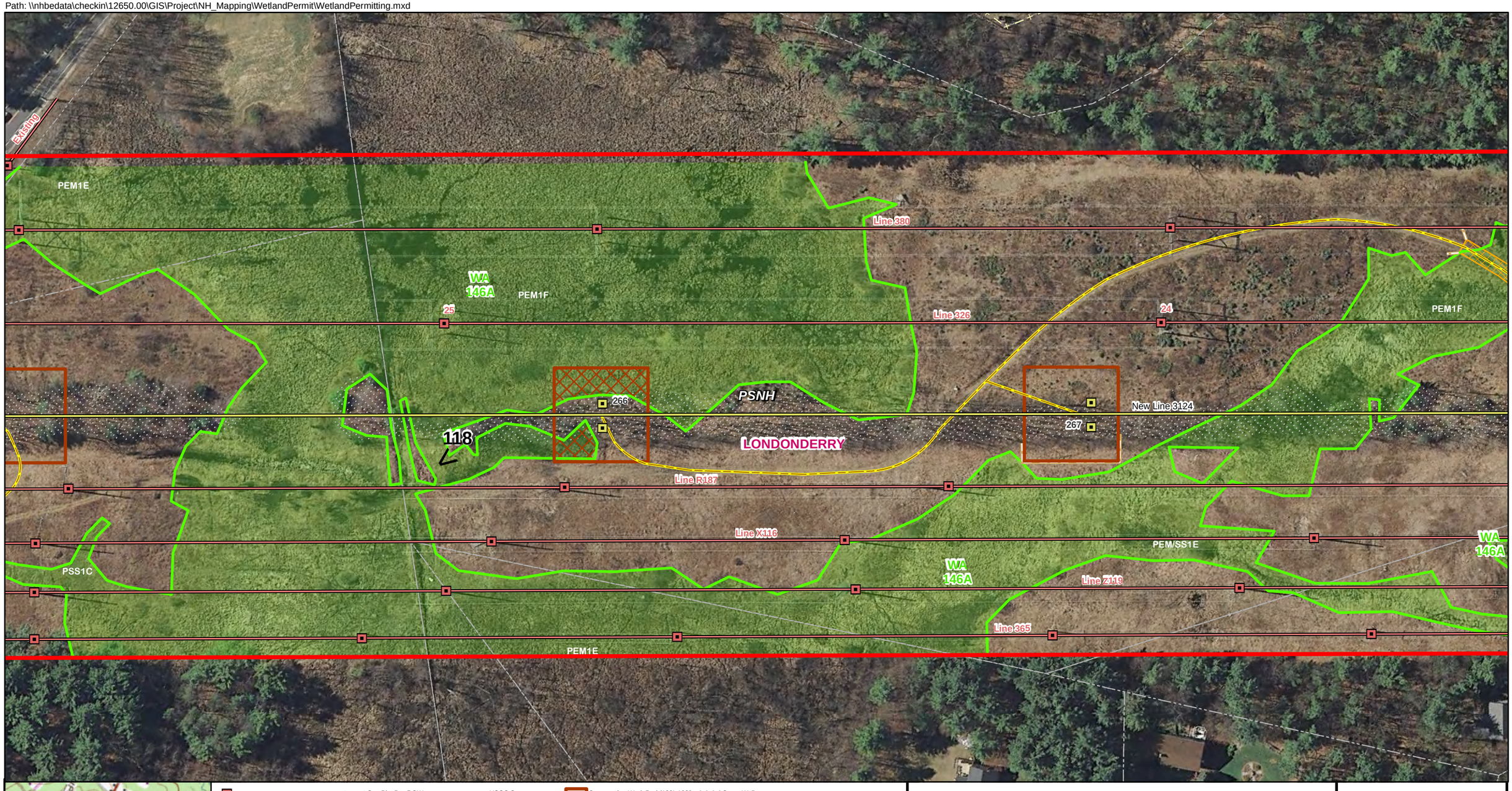

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PARISH DRIVE

SO.

WA 146A

PEM1F

119

Line 380

LONDONDERRY

23

Line 326

22

268

New Line 3124

PSNH

269

270

Line R187

Line X116

PEM/SS1E

Line Z119

Line 365

BANCROFT ROAD

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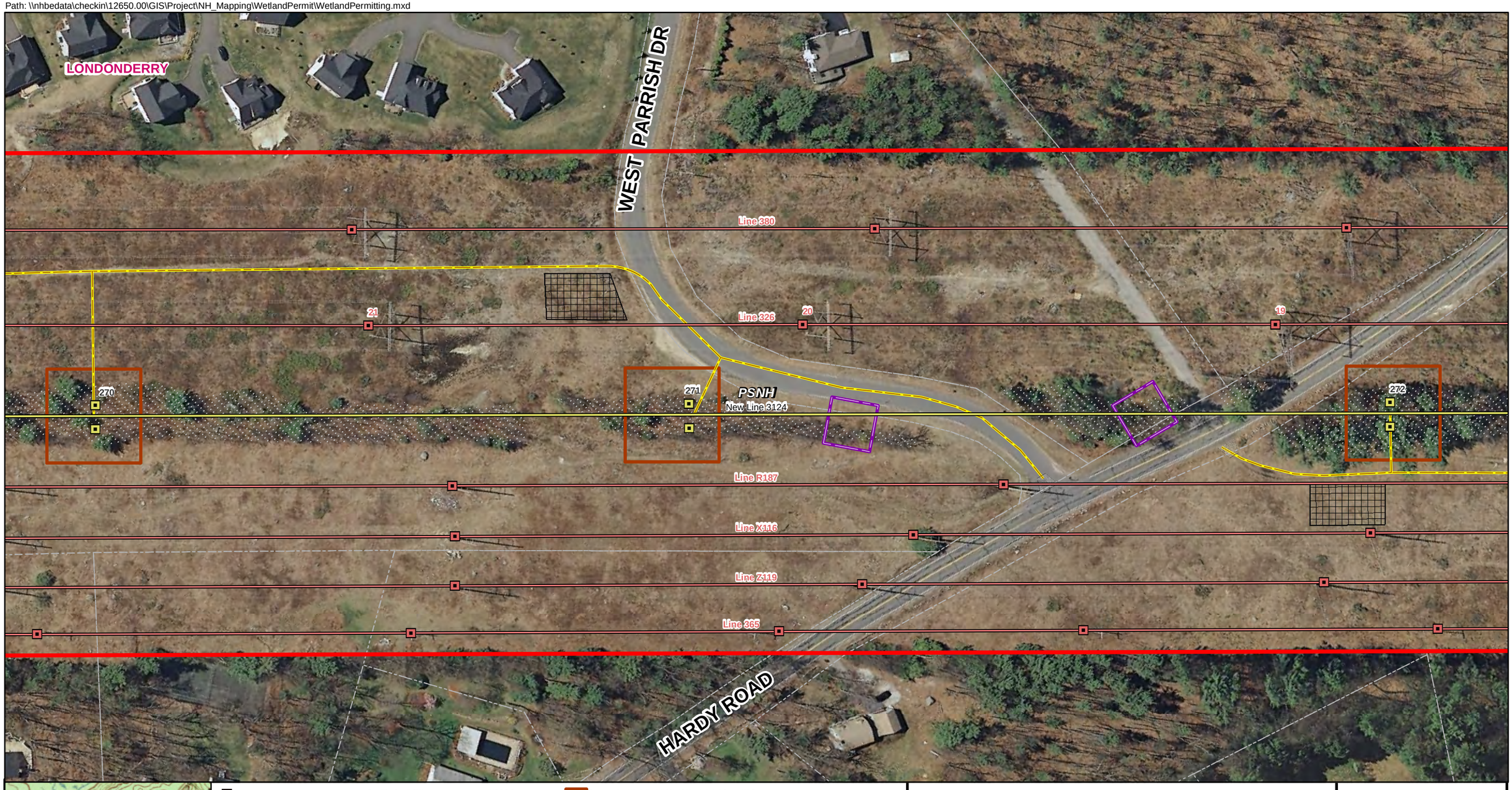

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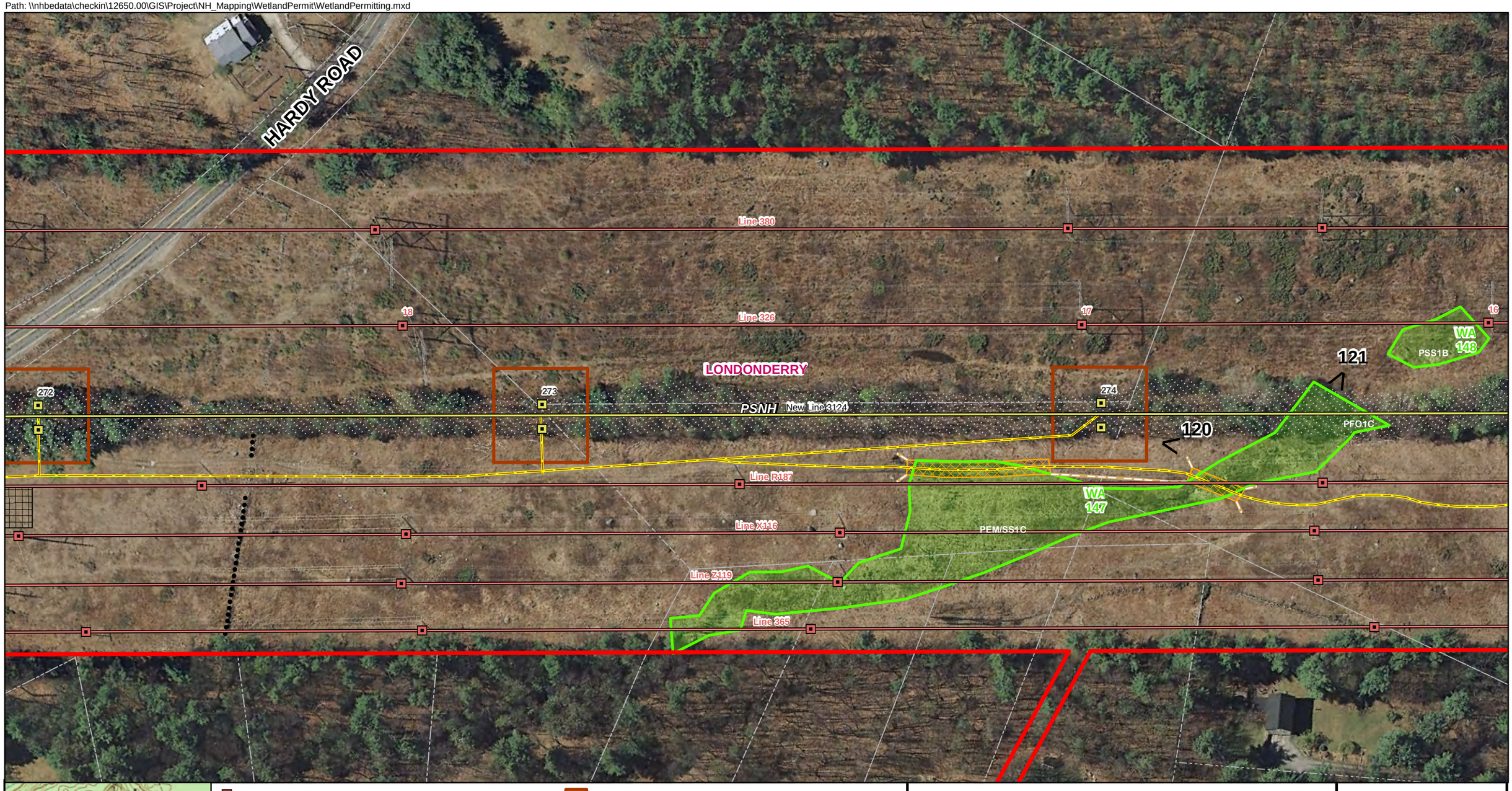

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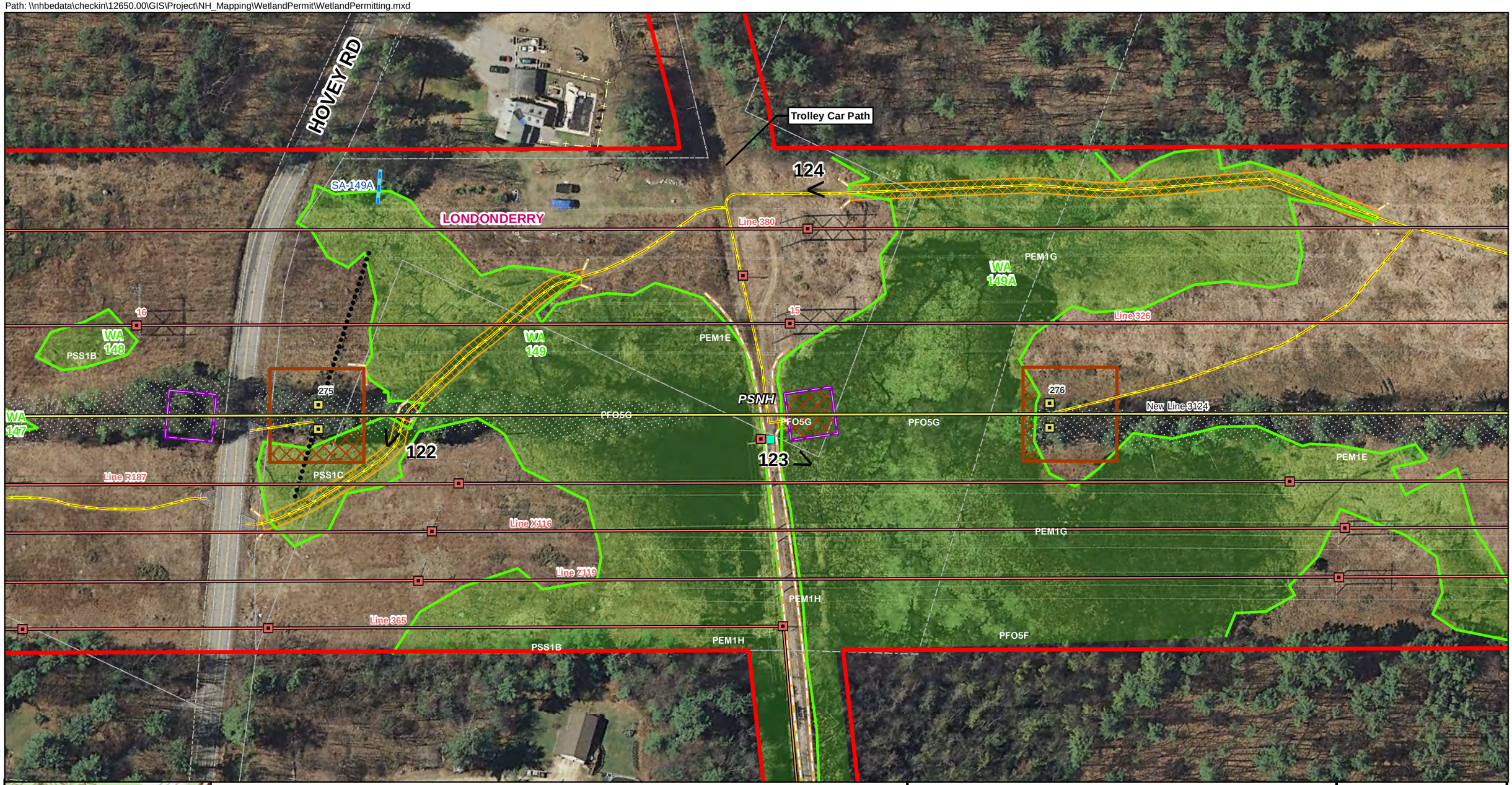

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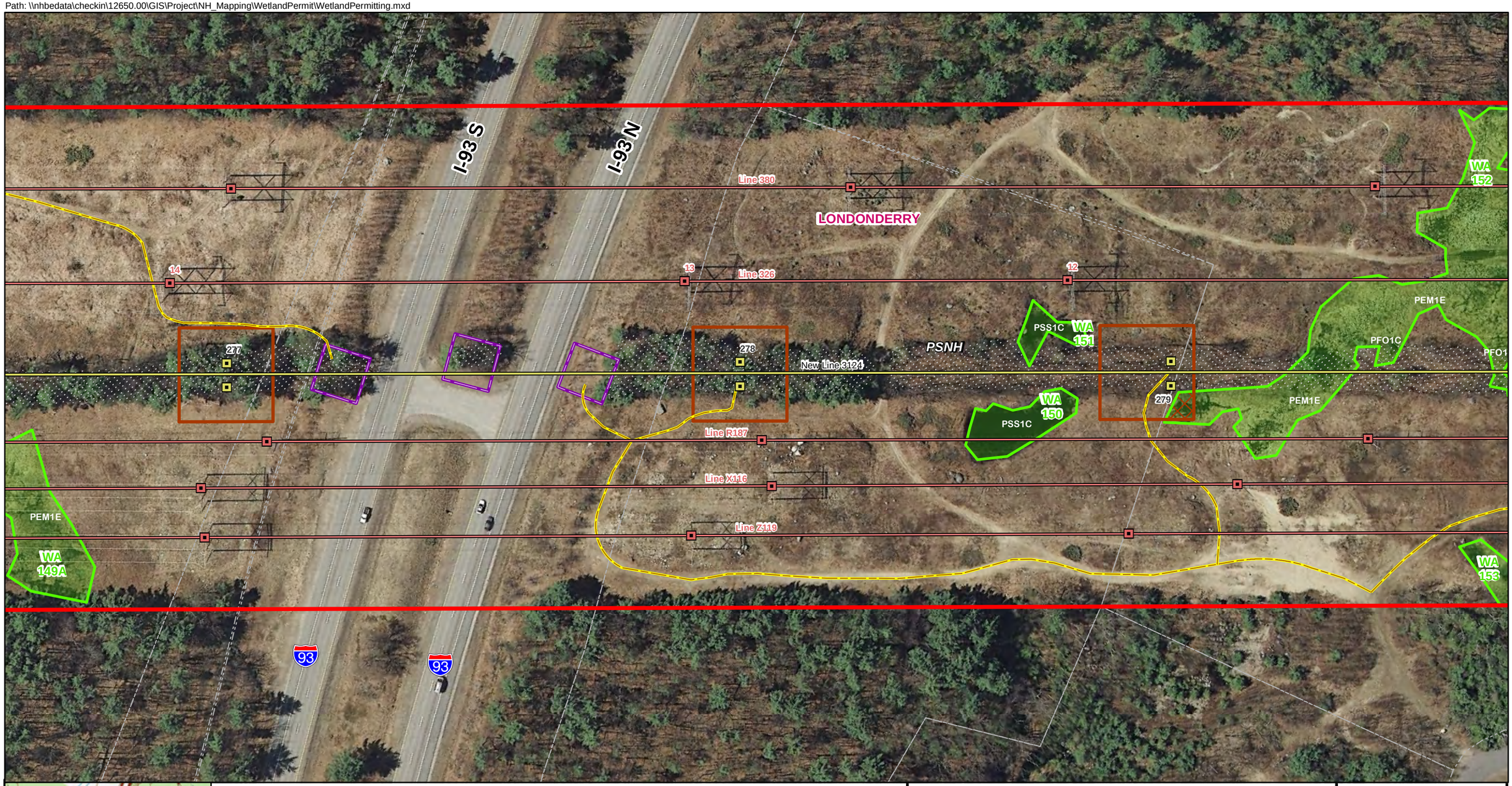

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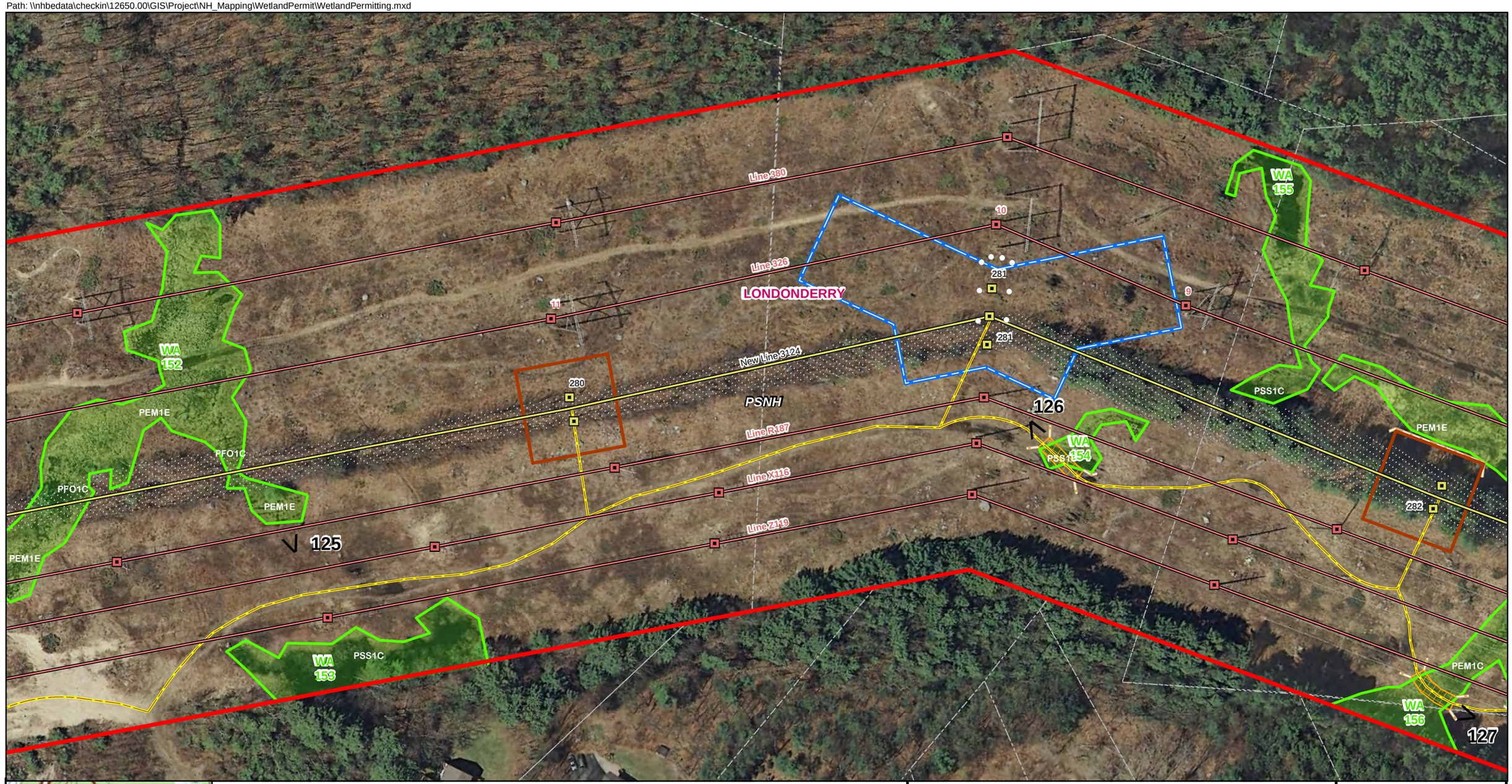

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ROCKINGHAM RD
(RTE 28)

128
129
130
127

WA 156
WA 158
WA 157
WA 159
WA 160
WA 161
WA 162
WA 163

PSS1C
PSS/EM1C
PEM1E
PEM1C

Line 380
Line 326
New Line 3124
PSNH
Line R187
Line X116
Line Z119
Line 322WA

282
283
284
8
7
6

LONDONDERRY

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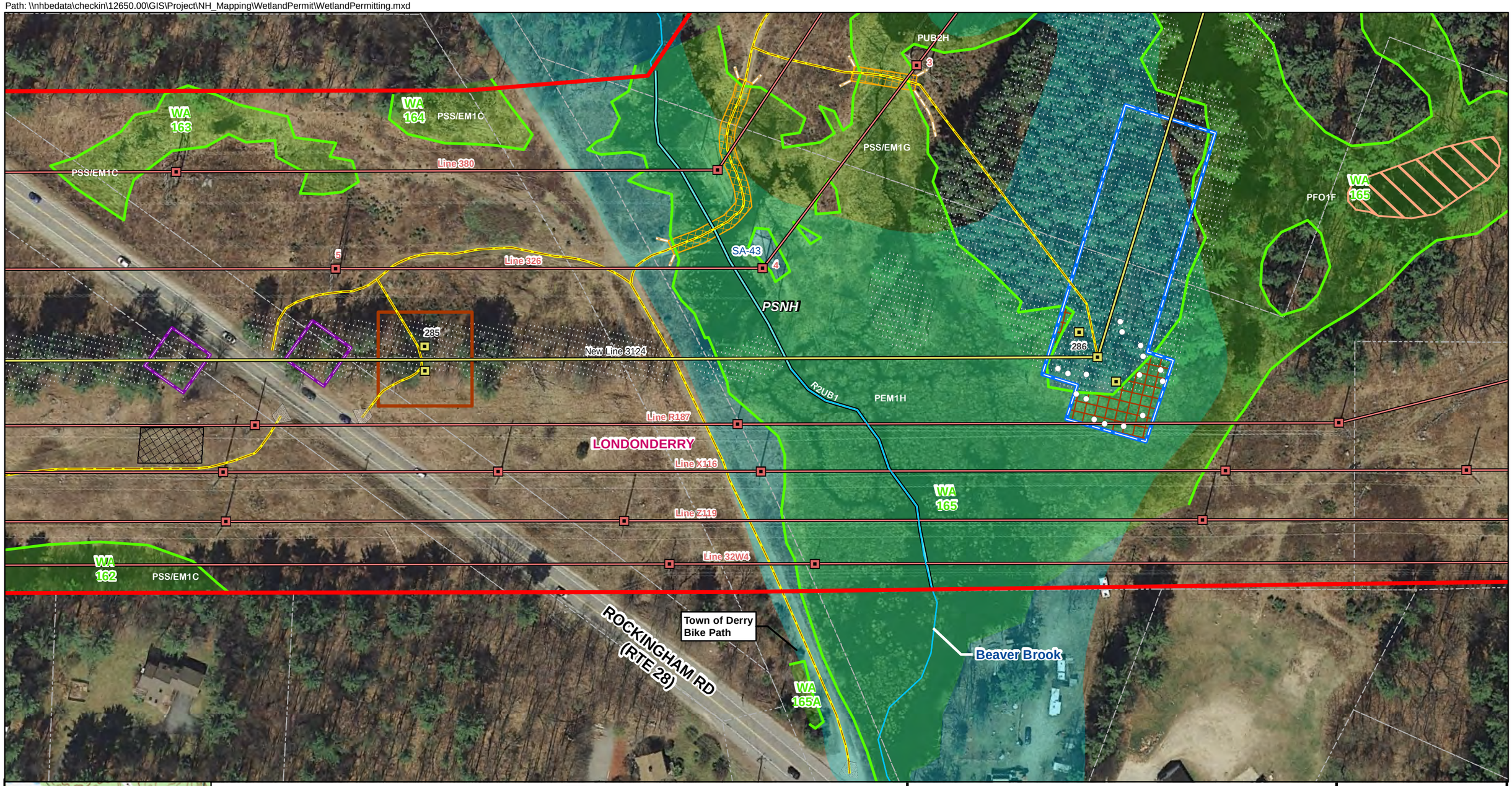

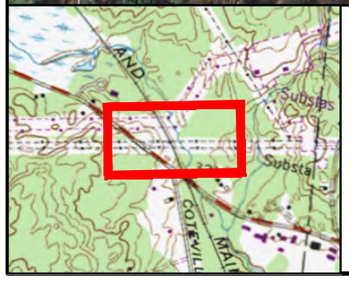

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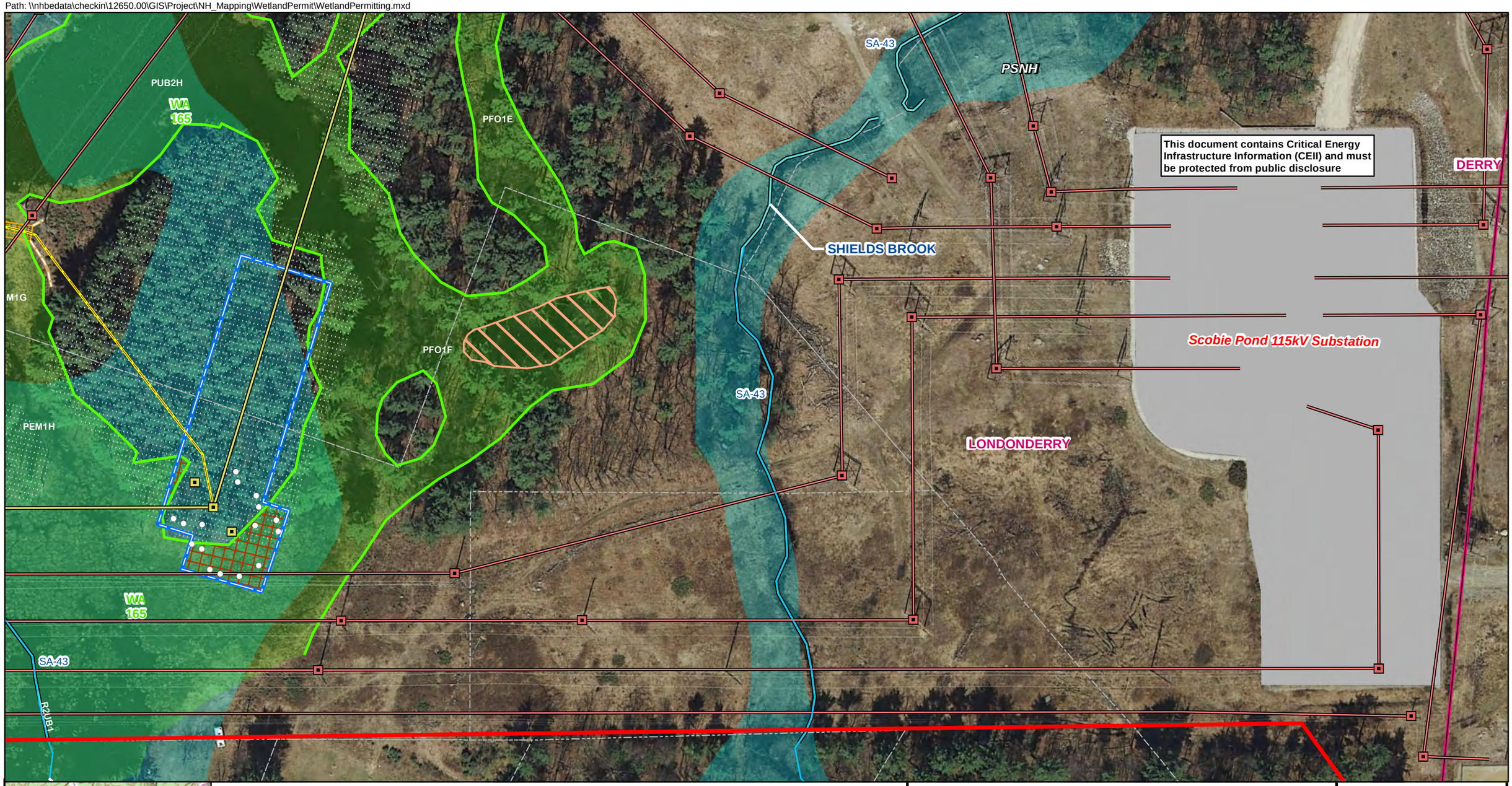

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- Guard Protection Area (50'x50')
- Swamp Mat Construction Work Pad
- Swamp Mat Access
- Proposed Permanent Crossing
- Laydown Area
- Stone Apron
- Culvert
- Fence
- Stone Wall
- Erosion Control
- Tree Clearing Area
- Photo Location
- Town Boundary

1 Inch = 100 Feet
0 50 100 200
Feet

Wetland Permitting Plan Set
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to Scobie Pond 345 kV Substation NH

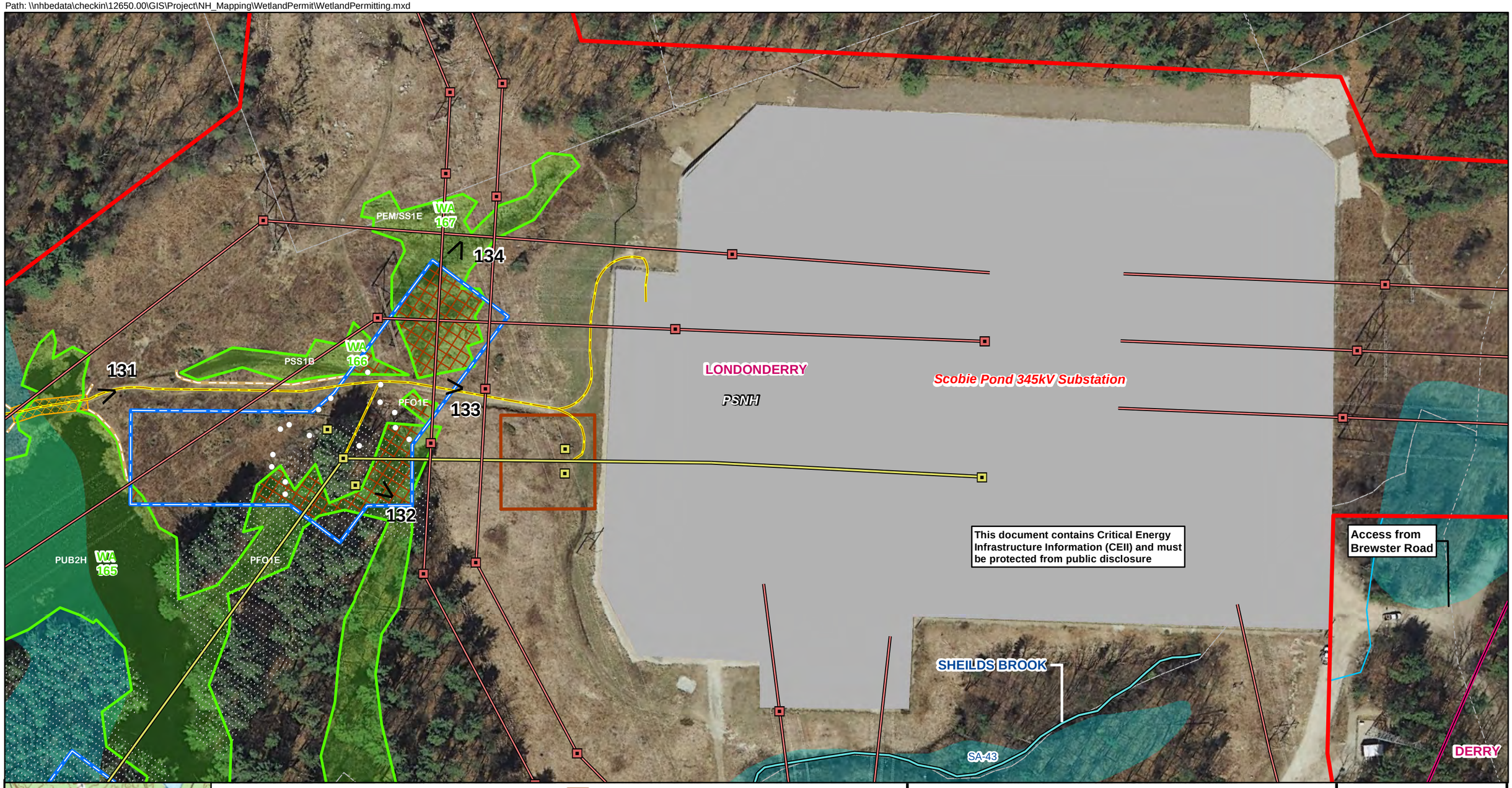
Source:
NGRID,Black & Veatch,VHB,
Beals & Thomas,Eversource,Normandeau

Date: 7/6/2015

nationalgrid

EVERSOURCE ENERGY

Path: \\nhbedata\checkin\12650.00\GIS\Project\NH_Mapping\WetlandPermit\WetlandPermitting.mxd



- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Proposed Guy Anchor Location
- Existing Transmission Line
- Existing Line to be Removed
- Proposed Transmission Line
- Surveyed ROW Boundary
- NEP Property
- Parcel Boundary
- Primary Access
- Alternate Access
- Gas Pipeline ROW
- Sewer Line ROW
- Delineated Wetland Edge
- Estimated Wetland Edge
- Wetland Resource Area
- Open Water
- Vernal Pool
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ordinary High Water
- USGS Stream
- NHDES Prime Wetland
- FEMA 100-yr Floodplain
- Construction Work Pad (100'x100')
- Pull Pad Site (100'x300')
- Guard Protection Area (50'x50')
- Swamp Mat Construction Work Pad
- Swamp Mat Access
- Proposed Permanent Crossing
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1 Inch = 100 Feet

0 50 100 200

Feet

Wetland Permitting Plan Set
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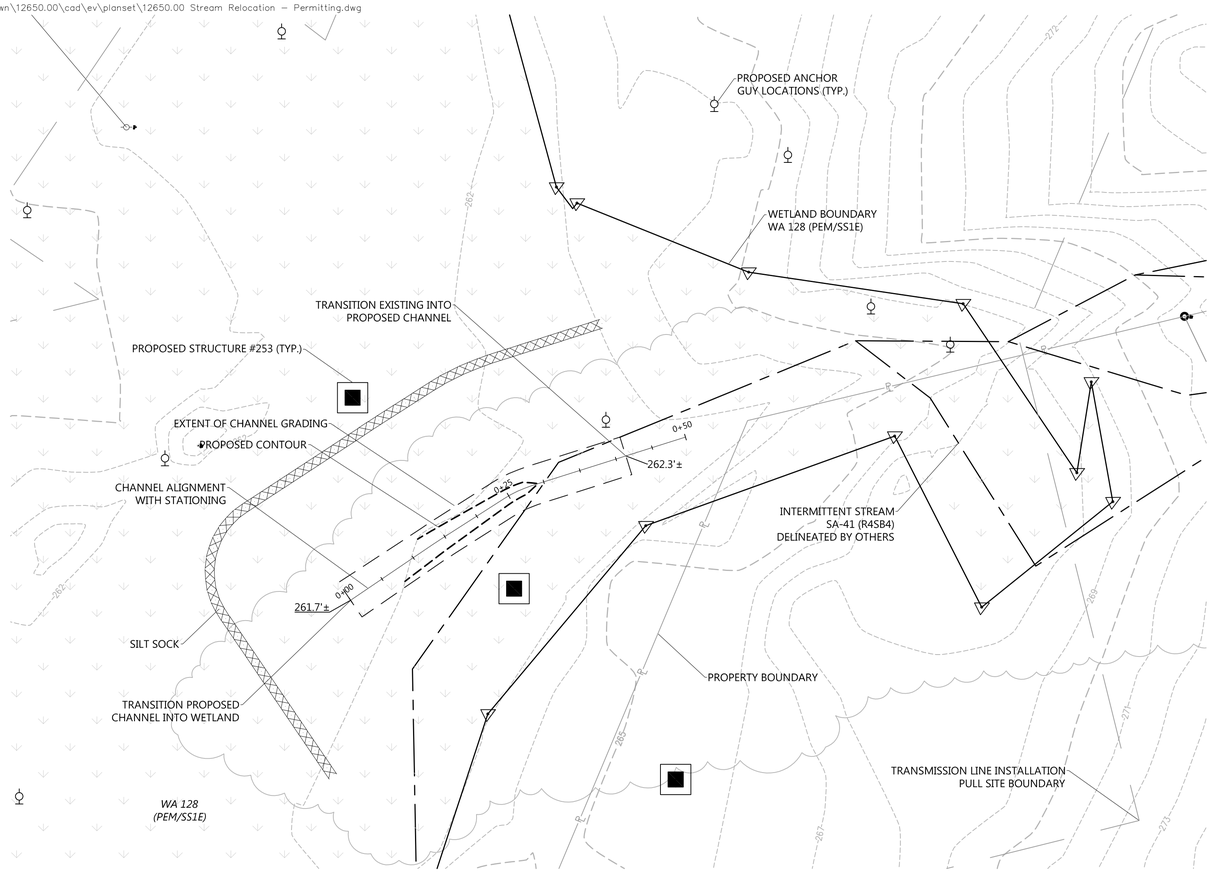
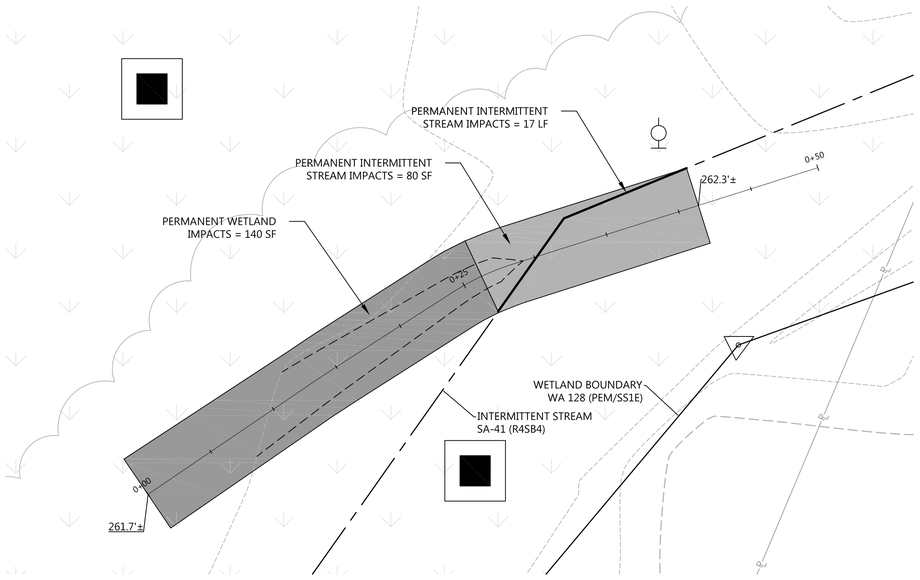


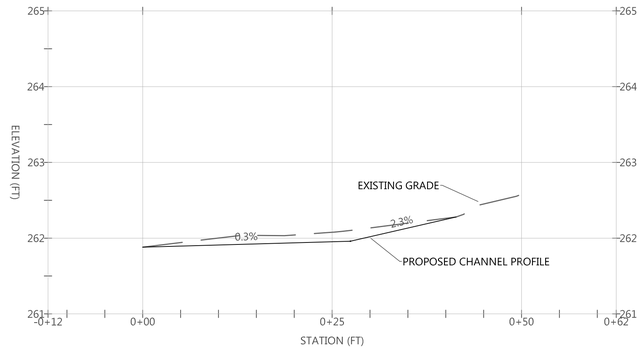
PLAN

1" = 10'



WETLAND AND STREAM IMPACT PLAN

SCALE: 1" = 5'

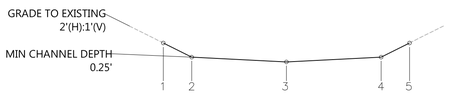


PROFILE

H: 1" = 10'

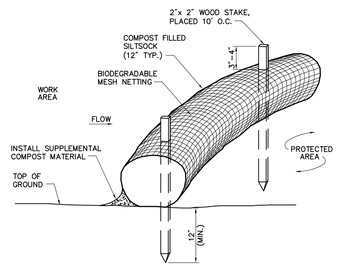
V: 1" = 1'

#	OFFSET	ELEV
1	−3.25'	+0.50'
2	−2.50'	+0.25'
3	0.00'	0.00'
4	+2.50'	+0.25'
5	+3.25'	+0.50'



CROSS SECTION DETAIL

SCALE: 1" = 2'



Notes:

1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILTSOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFFSITE.

Siltsock - Erosion Control Barrier 8/12

N.T.S. Source: VHB LD_658

General Notes

1. THE CURRENT OWNER OF RECORD IS PSNH 780 NORTH COMMERCIAL STREET, MANCHESTER, NEW HAMPSHIRE 03101
2. THE EXISTING CONDITIONS SHOWN ARE BASED ON AN ACTUAL FIELD SURVEY CONDUCTED IN APRIL 21, 2015 BY VHB
3. THE PROPERTY LINES WERE DETERMINED BY VHB FROM AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND IN APRIL 2015 AND FROM PLANS AND DEEDS OF RECORD.
4. WETLANDS WERE PREVIOUSLY DELINEATED IN THE FALL OF 2012 BY NORMANDEAU ASSOCIATES, INC. IN SUPPORT OF A PREVIOUS PSNH PROJECT. DURING SEPTEMBER AND OCTOBER 2014, AND APRIL 2015, VHB WETLAND SCIENTISTS REVIEWED AND CONFIRMED PREVIOUSLY DELINEATED WETLAND AREAS AND EXTENDED BOUNDARIES AS NEEDED TO INCLUDE THE ENTIRE PROJECT AREA

Construction Sequence

1. COMPLETE INSTALLATION OF PROPOSED TRANSMISSION STRUCTURE #253 AND ASSOCIATED DISTRIBUTION LINE WORK AT THE SITE.
2. MAINTAIN EXISTING EROSION CONTROL BARRIERS UNTIL COMPLETION OF STREAM GRADING AND ESTABLISHMENT OF PERMANENT GROUND COVER.
3. REMOVE TIMBER MATS WITHIN THE PULL SITE EXCEPT THOSE REQUIRED TO COMPETE CHANNEL GRADING.
4. GRADE CHANNEL AS SHOWN ON PLANS.
5. RESTORE AND STABILIZE DISTURBED AREAS.
6. REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.

Erosion Control

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONSTRUCTION ACTIVITIES SHALL BE IN CONFORMANCE WITH THE NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 – EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION, DECEMBER 2008, AND THE BEST MANAGEMENT PRACTICES MANUAL FOR UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATERBODIES IN NEW HAMPSHIRE, PUBLISHED BY THE NH DEPT. OF RESOURCES AND ECONOMIC DEVELOPMENT (JANUARY 2010).
3. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT (0.5" OF RAINFALL OR GREATER) AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
4. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
5. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
6. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS.
7. AREAS REMAINING UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. STRAW MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 1–1/2 TONS/ACRE.
8. PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 1 AND JUNE 1, AND/OR BETWEEN AUGUST 15 AND OCTOBER 15. ALL SEEDING FROM SEPTEMBER 15 SHALL BE STRAW MULCHED.
9. DUST SHALL BE CONTROLLED THROUGH THE USE OF WATER.
10. SOILS TO BE STOCKPILED FOR A PERIOD OF MORE THAN 30 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED. CONTRACTOR SHALL INSTALL SILT FENCING ALONG DOWNHILL SIDE OF STOCKPILES.
11. CONTRACTOR SHALL PROVIDE NECESSARY EROSION CONTROL MEASURES TO INSURE THAT SURFACE WATER RUN–OFF FROM UNSTABILIZED AREAS DOES NOT CARRY SILT, SEDIMENT, AND OTHER DEBRIS OUTSIDE OF THE LIMITS OF WORK.
12. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
    - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED AND COMPACTED;
    - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
    - C. A MINIMUM OF 3–IN OF NON–EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS BEEN INSTALLED;
    - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
13. 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.
14. SOIL GENERATED AS PART OF POLE INSTALLATION SHALL BE DISPERSED IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER PROTECTED AREAS.
15. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
16. ALL SEEDING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

    UPLAND PLANTING MIX

    "NEW ENGLAND CONSERVATION WILDLIFE MIX' AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC.

    WETLAND RESTORATION PLANTING MIX

    "NEW ENGLAND EROSION–CONTROL / RESTORATION MIX (FOR DETENTION BASINS AND MOIST SITES) AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA. (413) 256–1752
17. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3–FT HORIZONTAL AND 1–FT VERTICAL (3:1). EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN SC150BN, OR APPROVED EQUAL.

vhb.com

vhb

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Suite 200
Bedford, NH 03110
603.391.3900
f 603.518.7495

EVERSOURCE ENERGY

Merrimack Valley Reliability Project

101 Walnut Street
Watertown, Massachusetts

No.	Revision	Date	Appvd.

Designed by | Checked by

Issued for | Date

May 2015

Not Approved for Construction

Drawing Title

Channel Realignment
Londonderry, NH

Drawing Number

1

Sheet of

1 1

Project Number

12650

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Wetland Delineation Notes:

1. Wetlands were delineated along the PSNH ROW in the Fall of 2012 by Normandeau Associates in support of a previous PSNH project.

   During September and October 2014, and April 2015, VHB Wetlands Scientists reviewed and confirmed previously delineated wetland areas and extended boundaries as needed to include the entire Project area. VHB also delineated a number of wetlands, not previously delineated by Normandeau, that were outside the study area for the previous PSNH project. Wetlands were delineated using alpha-numerically coded pink flagging tape.

2. Wetland delineation was performed to the standards in the *Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (January 2012).

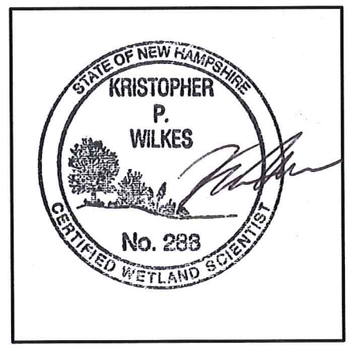
3. Wetlands were GPS-located in the field using a Trimble GeoXT and Trimble GeoXH handheld GPS units with submeter accuracy.

4. Hydric soils were determined in accordance with *Field Indicators for Identifying Hydric Soils in the United States, Version 7.0* published by the Natural Resources Conservation Service, and the *Field Indicators for Identifying Hydric Soils in New England, Version 3.0* published by the New England Interstate Water Pollution Control Commission.

5. Dominance of wetland vegetation was assessed using the *Northcentral and Northeast 2014 Final Regional Wetland Plant List* published by the U.S. Army Corps of Engineers.

6. Wetland were classified using the USFWS methodology *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979, revised 1985).

7. Wetland function and values were assessed using the *Highway Methodology Workbook Supplement* (USACE, 1999).



Wetland Permitting Plan Set
Merrimack Valley Reliaiblity Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

Source:
National Grid

nationalgrid

EVERSOURCE ENERGY

General Construction Notes:

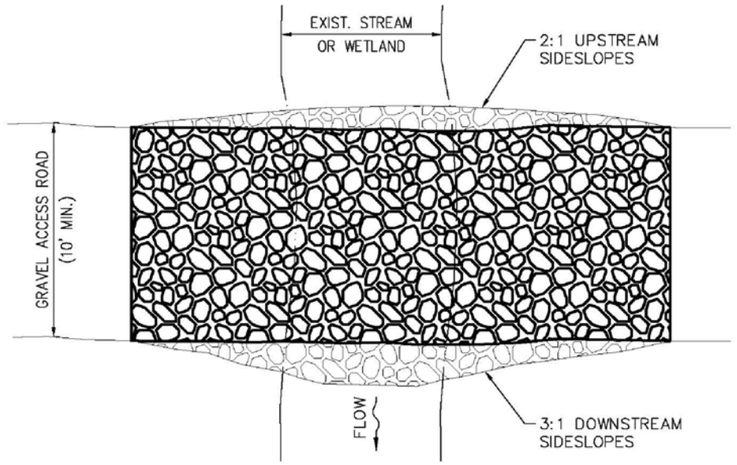
1. This plan set is provided to show jurisdictional impacts and required environmental controls only. Engineering documents should be consulted to determine the scope and location of all other construction activities. Proposed construction limits of disturbance are approximate.Contractor is responsible for minimizing earth disturbance, as practicable.
2. Erosion and sedimentation control measures shall be installed prior to start of work, shall be maintained, and shall remain in place during construction until all disturbed surfaces are stabilized. Following stabilization, erosion and sedimentation control measures shall be removed off-site and properly disposed.
3. Erosion and sedimentation controls shall be appropriate to the size and nature of the project and to the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to wetlands or surface waters. The type and installation of sediment and erosion controls shall be in accordance with National Grid's EG303NE (EG-303NE) or the BMP Manual for Utility Maintenance in and adjacent to Wetlands and Waterbodies in New Hampshire (BMP Manua") (NHDRED, 2010).
4. The environmental controls shown on these plans may need to be supplemented due to season of work, work methods proposed, and additional requirements of outstanding permits. Refer to BMP manuals and additional guidance documents, as needed.
5. Temporary stone construction entrances will be used at all points of construction ingress/egress from public and private roadways in accordance with EG303NE and BMP Manual.
6. The selected contractor is responsible for street sweeping, as required, at points of ingress/egress from public and private roadways in accordance with the NPDES Construction General Permit.
7. Selected contractor will be responsible for certifying that all equipment on the project is clean of invasive species prior to arriving onsite. The contractor will also be responsible for cleaning equipment as it is moved within the project to reduce the risk of spreading invasive plant seeds and fragments.
8. Swamp matting shown on the plans represents the square footage and alignment of matting which is required and has been approved by the regulators. Additional layers of mats may be required at certain locations. Any increase in the number, change in alignment, or decision not to use swamp mats must be approved by an authorized representative of the Permittee(s) and , as appropriate, regulators.
9. Span streams or drainage swales with temporary bridge or swamp mats that are free of soil and debris. Protect all existing culverts encountered along access roads within the ROW.
10. Proposed construction limits of disturbance as shown are approximate. The selected contractor is responsilbe for minimizing earth disturbance as practicable.
11. The selected contractor is responsible for installing waterbars and other similar measures to prevent concentrated run-off.
12. Any excavated material shall be placed outside of jurisdictional areas or removed from the site.
13. If dewatering is required, dewatering basins shall be placed in uplands areas and discharge water into upland areas.
14. Areas of soil disturbance shall be stabilized following construction in accordance with EG-303NE or BMP Manual.

Wetland Permitting Plan Set
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

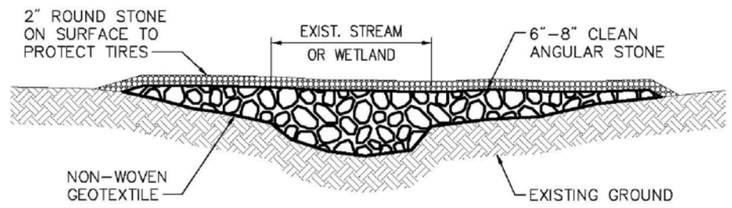
Source:
National Grid

nationalgrid

EVERSOURCE ENERGY



Plan View



Section View

Notes:

1. REPAIR AND MAINTENENCE SHALL BE REQUIRED AS NECESSARY TO MAINTAIN FUNCTION.
2. ROAD GRADES APPROACHING FORD SHALL BE BROKEN TO DISPERSE WATER SO IT WILL NOT REACH STREAM/WETLAND.
3. ANGULAR STONE SIZE, D_{75}=5 INCHES.
4. FILL HEIGHT TO BE 0.5' (MIN.) ABOVE LOW FLOW WATER LEVEL. TOTAL FILL SHALL NOT EXCEED 2 FEET ABOVE STREAM BED.

Stone Ford

N.T.S.

REV

Constuction Details

Wetland Permitting Plan Set
Merrimack Valley Reliability Project
Tewksbury 22A Substation MA to
Scobie Pond 345 kV Substation NH

Source:
National Grid

nationalgrid

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Attachment B

Wetland and Stream Impact Summary Tables

Wetland Impact Summary Table

Merrimack Valley Reliability Project Impacted Wetlands in NH

WETLAND ID	COWARDIN CLASS	PRINCIPAL FUNCTION&VALUES	PHOTOS	Project Impacts					Vernal Pool Present? / ID	Associated Stream Channel? Name/Type/Cowardin Class	Other Comments
				Temporary		Permanent		Clearing (Sq Ft)			
				Type	Impact (Sq Ft)	Type	Impact (Sq Ft)				
SEGMENT 2 (NEP)											
30	PSS1E	Wetland provides no significant functions/values	1	Work Pad	1,221	None	0	98	No	No	Narrow swale dominated by glossy buckthorn, drains west into forested landscape.
31	PSS1E, PFO1E	Wetland provides no significant functions/values	2	None	0	None	0	3669	No	No	Wetland dominated by glossy buckthorn.
32	PSS1E	Production Export	3	Work Pad	1,918	None	0	0	No	No	Wetland contains purple loosestrife and glossy buckthorn. Drains in a southerly direction.
33	PSS1E	Wetland provides no significant functions/values	4	Work Pad	2,508	None	0	0	No	No	Wetland dominated by purple loosestrife. Shows signs of heavy historic disturbance from ROW development.
34	PSS1E, PEM1E	Wetland provides no significant functions/values	5	Work Pad	1,156	None	0	0	No	No	Isolated wetland, contains purple loosestrife and glossy buckthorn.
36	PSS/EM1E, PSS1E	Wildlife Habitat	6, 7, 8	Access Matting, Work Pad	6,295	None	0	136	No	SA-11/Intermittent/R4SB5/6	Highly disturbed by ATV activity.
36A	PFO1E, PSS1E	Sediment/Toxicant Retention	9	Pull Pad	12,851	Structure Installation	50	5161	No	SA-11/Intermittent/R4SB5	Primarily forested with intermittent stream draining to the south towards Dutton Road.
36B	PSS1E	Floodflow alteration, sediment/Toxicant Retention	No Photo	Work Pad	792	None	0	0	No	SA-11/Intermittent/R4SB5	Receives drainage from intermittent stream.
37	PSS1E	Wetland provides no significant functions/values	10	Access Matting	149	None	0	0	No	No	Densely vegetated isolated wetland dranins across existing ATV trail.
39	PSS1E, PFO1E	Wildlife Habitat	11, 12	Work Pad, Access Matting	3,364	None	0	356	Yes/ VP-39	No	Densely vegetated wetland swale within ROW drains in a southerly direction.
40	PSS1E	Groundwater recharge/Wildlife Habitat	13	None	0	None	0	279	Yes/ VP-40	No	Potential Vernal Pool appears to be located in a previously excavated area.
41	PSS1E	Groundwater recharge/discharge	14	None	0	None	0	189	No	No	Wetland is an old borrow pit, partially filled with boulders/construction debris. Dominated by glossy buckthorn.
42C	PSS/EM1E, PFO5E	Wildlife Habitat	15	Work Pad, Access Matting	5,107	None	0	211	No	No	Large scrub-shrub/emergent wetland extending/draining off ROW to the west. ATV trail crosses wetland on eastern side of the ROW.
43	PSS1C	Wetland provides no significant functions/values	16	None	0	None	0	2034	Yes/ VP-43	No	Dominated by glossy buckthorn, drains west off ROW.
44	PSS1E, PFO5E	Wildlife Habitat	17, 18	Work Pad, Access Matting	7,647	None	0	554	No	SA-12/Intermittent/R2UB3	Large PSS complex drains westerly to small intermittent stream.
45	PSS/EM1E, PSS1E, PFO5E	Groundwater recharge	19, 20	Pull Pad	25,574	ROW Access Road Improvements	2103	2336	No	SA-13/Intermittent/R4SB5	
46	PUBH, PEM1H, PSS1E	Floodflow Alteration, Fish Habitat, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	21, 22, 23	Work Pad, Access Matting	35,622	Structure Installation, ROW Access Road Improvements	628	59	No	SA-14/Golden Brook/Perennial/R2UB2/3	Designated Prime Wetland (Lower Golden Brook Prime Wetland).
48	PSS1E	Wildlife Habitat	24, 25	Work Pad, Access Matting	4,791	None	0	62	No	No	Wetland crossed multiple times by ATV trail. Wetland drains to the west off-ROW.
49	PSS1E, PFO1E	Production/Export	26, 27	Work Pad	6,850	None	0	1069	No	No	
50	PSS1E	Wildlife Habitat	28, 29, 30, 31	Work Pad, Access Matting	9,351	ROW Access Road Improvements	954	1029	No	No	Large scrub-shrub wetland with undulating topography and pits with sphagnum moss. Deer beds abundant.
52	PSS1E	Nutrient Removal	32, 33, 34	Work Pad, Access Matting	2,542	None	0	109	No	No	Scrub-shrub wetland swale along the edge of a hayfield.

Merrimack Valley Reliability Project Impacted Wetlands in NH

WETLAND ID	COWARDIN CLASS	PRINCIPAL FUNCTION&VALUES	PHOTOS	Project Impacts					Vernal Pool Present? / ID	Associated Stream Channel? Name/Type/Cowardin Class	Other Comments
				Temporary		Permanent		Clearing (Sq Ft)			
				Type	Impact (Sq Ft)	Type	Impact (Sq Ft)				
53	PSS1E, PEM1E	Nutrient Removal	35	Work Pad, Access Matting	2,974	None	0	0	No	No	Wetland located within old farm field with shrubs starting to populate area.
OR2	PEM1E	Nutrient Removal	135	Access Matting	348	None	0	0	No	No	Wetland swale through active hayfeild
54	PFO1C, PSS1E	Nutrient Removal	36	Work Pad	3,433	None	0	923	No	No	Thickly vegetated reclaimed farm field.
54A	PEM1E	Nutrient Removal, Production Export	37	Work Pad, Access Matting	10,828	Structure Installation	15	0	No	No	Wetland located within active hayfield.
59	PSS/EM1E, PUBH	Groundwater discharge	38, 39	Work Pad, Access Matting	13,586	None	0	121	No	SA-16/Perennial /R4SB4/5	Wetland appears to be located within a series of naturalized gravel pits.
59D	PUBH, PSS1E	Groundwater recharge	40	Work Pad	845	None	0	0	No	No	Wetland drains into excavated pond next to residential driveway.
59G	PSS1E, PEM1E	Wetland provides no significant functions/values	41	Work Pad	284	None	0	0	No	No	Narrow drainage from excavated pond.
60	PFO1E	Sediment/Shoreline Stabilization, Wildlife Habitat	42	None	0	None	0	134	No	SA-18/Perennial/R2UB1	
61	PEM1E, PFO1E	Sediment/Shoreline Stabilization, Wildlife Habitat	43	None	0	None	0	537	No	SA-19/Intermittent/R4SB3	
62	PSS1E	Wetland provides no significant functions/values	44	None	0	ROW Access Road Improvements	250	94	No	No	Densely vegetated narrow PSS wetland swale draining westerly.
65	PSS1E	Sediment/Shoreline Stabilization	45	None	0	None	0	605	No	SA-22/Intermittent/R4SB3/4	Wetland borders intermittent channel, drains east to west across ROW.
69	PSS1E	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	46, 47	Work Pad, Access Matting, Guard Protection	5,285	None	0	0	No	No	Wetland located directly adjacent to substation and entrance driveway.
69A	PSS1E, PFO1E	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	48	Work Pad	1,742	None	0	452	No	SA-23/Intermittent/R4SB4	Wetland associated with intermittent stream channel.
73	PUBHx, PSS1E	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	50	None	0	None	0	198	No	No	Ponded area located in wetland, appears to be man-made.
75A	PAB3H, PEM1E, PSS1E	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	51	Work Pad	1,402	None	0	0	No	No	Large densely vegetated wetland system with open water (flooded area) present, extends outside of ROW.
75B	PSS1E, PEM1E	Floodflow Alteration, Nutrient Removal	52, 53	Work Pad, Access Matting	4,013	None	0	0	No	No	Wetland located adjacent to active farmland.
77B	PEM1F, PFO1E	Wildlife Habitat, Sediment/Toxicant Retention, Floodflow Alteration	55	None	0	None	0	39527	No	SA-26/Intermittent/R4SB4 SA-27/Perennial/R2UB2	Hydrologically connected to Robinson Pond south of the ROW
77C	PSS1C, PFO1C	Sediment/Toxicant Retention, Floodflow Alteration	56, 57	Access Matting	392	None	0	15175	No	SA-28/Intermittent/R4SB3	Wetland associated with intermittent channel,flows east to west.
77D	PSS1C	Sediment/Toxicant Retention, Floodflow Alteration	58	Access Matting	1,333	None	0	0	No	SA-28/Intermittent/R4SB3	Wetland associated with intermittent channel, flows east to west.
SEGMENT 3 (PSNH)											
78	PSS1B	Wetland provides no significant functions/values	54	Pull Pad, Access Matting	11,014	Structure Installation	100	5105	No	No	Start of Eversource ROW.

Merrimack Valley Reliability Project Impacted Wetlands in NH

WETLAND ID	COWARDIN CLASS	PRINCIPAL FUNCTION&VALUES	PHOTOS	Project Impacts					Vernal Pool Present? / ID	Associated Stream Channel? Name/Type/Cowardin Class	Other Comments
				Temporary		Permanent		Clearing (Sq Ft)			
				Type	Impact (Sq Ft)	Type	Impact (Sq Ft)				
86	PSS1E, PSS1B, PFO1E, PFO1B	Floodflow Alteration, Sediment/Toxicant Retention	59, 60, 61	Work Pad, Access Matting	12,620	Structure Installation	25	39988	No	No	Wetland located at base of steep rocky slope/outcrop that extends across ROW.
88	PFO1C, PSS1C	Wildlife Habitat	62	None	0	None	0	21737	Yes/ VP-88	No	
89	PUB2Hb, PEM1G	Wildlife Habitat, Floodflow Alteration, Groundwater Recharge/Discharge	63	None	0	None	0	3390	No	SA-30/Chase Brook/Perennial/R2UB2Hb	Beaver activity - dam present.
90	PEM1Gx, PSS1C	Wildlife Habitat, Floodflow Alteration, Groundwater Recharge/Discharge	64	None	0	None	0	475	Yes/ VP-90	No	PEM/VP portion of wetland appears to be not natural, likely excavated.
91	PFO1C	Flodflow Alteration, Sediment/Toxicant Retention, Wildlife Habitat	65	None	0	None	0	8	No	No	Wetland mostly outside project area.
92	PAB4E,PEM1E	Wildlife Habitat, Floodflow Alteration	66	None	0	None	0	3753	Yes/ VP-92	SA-31/Intermittent/R4SB	Wetland drains west to intermittent channel. Signs of variable water levels present.
93	PEM1F, PFO5F, PFO1E	Wildlife Habitat, Floodflow Alteration, Groundwater Recharge/Discharge, Sediment/Toxicant Retention	67, 68	Work Pad, Access Matting	16,678	Structure Installation	37.5	58790	No	No	Large emergent complex located downslope of Nashua Road (Route 102).
94	PSS1C	Wetland provides no significant functions/values	69	None	0	None	0	254	No	No	Small isolated wetland.
95	PSS1C	Floodflow Alteration, Wildlife Habitat	70	Work Pad	838	None	0	0	No	No	
97	PEM1H, PEM/SS1F	Groundwater Recharge/Discharge, Floodflow Alteration, Wildlife Habitat	71, 72	Access Matting	2,574	None	0	1410	No	SA-32/Nesenkeag Brook/Perennial/R2UB2	Flooded/ponded area associated with Nesenkeag Brook.
98	PFO1C, PEM/SS1E	Wildlife Habitat	73	None	0	None	0	3963	Yes/ VP-98	No	Vernal Pool present within wetland, vegetation densisty high.
99	PFO1B	Floodflow Alteration, Wildlife Habitat	74	None	0	None	0	70	No	No	Wetland mostly outside project area.
101	PFO1E, PAB3G	Floodflow Alteration, Wildlife Habitat	75, 76	Work Pad	3,298	None	0	17957	Yes/ VP-101	No	Northern portion of wetland contains aquatic bed habitat/ponded water.
102	PFO1C, PEM/SS1C	Wildlife Habitat, Groundwater Recharge/Discharge, Nutrient Removal, Sediment/Toxicant Retention	78, 79	Work Pad	692	None	0	20423	Yes/ VP-102	No	Forested wetland transitions into scrub-shrub/emergent wetland within cleared ROW.
102A	PFO1C	Same as 102.	77	None	0	None	0	2344	No	No	
102C	PFO1C	Same as 102.	80	None	0	None	0	1210	No	No	
104	PEM1F	Floodflow Alteration	81	None	0	None	0	731	No	SA-33/Intermittent/R4SB3	Intermittent channel feeds wetland from the east (culvert under Elwood Road).
105	PFO1B	Nurient Removal, Sediment/Toxicant Retention, Floodflow Alteration	82	None	0	None	0	13747	No	No	
105A	PFO1B	Same as 105.	83	None	0	None	0	1072	No	No	
105B	PUB2Hx	Same as 105.	84	None	0	None	0	949	No	No	Appears to be a man-made pond.
106	PSS1C, PSS1F	Floodflow Alteration, Sediment/Toxicant Retention, Nurient Removal, Wildlife Habitat, Sediment/Shoreline Stabilization.	85	None	0	None	0	2217	No	SA-34/Perennial/R2UB2 SA-35/Intermittent/R4SB4	Beaver Activity - dam - flooded. Several intermittent channels feed into perennial stream.

Merrimack Valley Reliability Project Impacted Wetlands in NH

WETLAND ID	COWARDIN CLASS	PRINCIPAL FUNCTION&VALUES	PHOTOS	Project Impacts					Vernal Pool Present? / ID	Associated Stream Channel? Name/Type/Cowardin Class	Other Comments
				Temporary		Permanent		Clearing (Sq Ft)			
				Type	Impact (Sq Ft)	Type	Impact (Sq Ft)				
SEGMENT 4 (PSNH)											
108	PEM1E	Groundwater Recharge, Floodflow Alteration	86	Pull Pad	16,392	None	0	0	No	No	Emergent wetland located in depresisonal area.
109	PSS1C	Wetland provides no significant functions/values	87	Pull Pad	768	None	0	0	No	No	Small isolated wetland in between ROW access roads.
OR3	PSS1C	Wetland provides no significant functions/values	No Photo	Access Matting	448	None	0	0	No	No	Small previously disturbed wetland, drains over existing ROW access road.
110	PEM1E	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	88	None	0	None	0	2140	No	SA-36/Perennial/R2UB2	Stream not well defined within wetland, inlets and outlets at limits of ROW.
111	PEM1E, PFO1E	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal	89, 90	Work Pad, Access Matting	3,179	None	0	12151	No	No	Large complex comprised mostly of emergent and scrub-shrub vegetation. Extends outside of ROW.
112	PSS1B, PFO1B	Floodflow Alteration	91	Work Pad, Access Matting	1,378	None	0	8536	No	No	
114	PEM/SS1E, PFO1C	Floodflow Alteration, Wildlife Habitat	92, 93	Access Matting	625	None	0	6600	Yes/ VP-114	No	PVP Identified within PFO portion of wetland. Wetland appears to be fed by drainage from neighboring residential properties to the east.
115	PFO1B, PEM1E, PFO1E	Groundwater Recharge, Floodflow Alteration, Wildlife Habitat	94, 95	Work Pad, Access Matting	2,302	None	0	12436	No	No	Wetland associated with large flooded complex outside of ROW.
117	PEM/SS1C, PEM/SS1E, PFO5H, PEM1G, PEM1E	Floodflow Alteration, Wildlife Habitat	96, 98	Work Pad, Access Matting	6,326	None	0	6531	No	SA-37/Intermittent/R4SB4 SA-38/Intermittent/R4SB3	Intermittent channel SA-38 flows NE to SW, over portion of access trail. Large flooded wetland complex extedns west out of ROW.
117A	PEM1E	Same as 117.	97	None	0	None	0	1051	No	SA-37/Intermittent/R4SB4	Wetland hydroliogcally connected to WA 117 via itnermittent stream channel SA-37.
117B	PFO1C, PSS1C	Same as 117.	99	Work Pad	1,163	None	0	5730	No	SA-38/Intermittent/R4SB3	Wetland hydrologically connected to WA 117 via intermittent stream channel SA-38.
120	PSS1B	Wetland provides no significant functions/values	100	Work Pad	396	None	0	0	No	No	Small isolated wetland within ROW.
123	PFO1C	Wetland provides no significant functions/values	101	None	0	None	0	542	No	No	Small isolated wetland along residential driveway shoulder.
124	PSS/EM1E	Floodflow Alteration, Wildlife Habitat	102	None	0	None	0	341	No	No	
125	PSS1B	Wetland provides no significant functions/values	103	None	0	None	0	437	No	No	Narrow isolated scrub-shrub wetland swale.
127	PSS1C	Groundwater Discharge	104	Access Matting	1,320	None	0	0	No	No	
128	PEM/SS1E, PEM1F, PEM1E	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	105, 106	Work Pad, Pull Pad, Access Matting, Guard Protection	43,219	Structure Installation/ Grading for stream SA-41 realignment	240	8813	No	SA-39/Intermittent/R4SB3/5 SA-40/Intermittent/R4SB3/5 SA-41/Intermittent/R4SB4	Several intermittent stream channels associated with large wetland complex that extends outside of ROW. Wetland located within Musquash Conservation Area.
128A	PFO1C, PSS/EM1C	Same as 128.	107	Work Pad	1,984	None	0	6039	No	SA-41/Intermittent/R4SB4	Wetland located along intermittent channel SA-41.
132	PSS1C, PSS1E, PSS/EM1C, PSS/EM1E	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal.	108, 109	Acces Matting	1,528	None	0	3561	No	No	Wetland is hydrologically connected to 128 via culvert underneath High Range Road.
133	PFO1C, PEM1E, PSS1C	Floodflow Alteration	110	None	0	None	0	6509	No	No	

Merrimack Valley Reliability Project Impacted Wetlands in NH

WETLAND ID	COWARDIN CLASS	PRINCIPAL FUNCTION&VALUES	PHOTOS	Project Impacts					Vernal Pool Present? / ID	Associated Stream Channel? Name/Type/Cowardin Class	Other Comments
				Temporary		Permanent		Clearing (Sq Ft)			
				Type	Impact (Sq Ft)	Type	Impact (Sq Ft)				
137	PEM1G, PSS1E, PSS/EM1E, PFO1E	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	111, 112	Work Pad	2,904	None	0	11911	No	No	Large emergent wetland complex with interspersed braided/diffuse channels. Densely vegetated.
141	PFO1C	Wetland provides no significant functions/values	113	Work Pad	358	None	0	2723	No	No	
143	PSS1B	Wetland provides no significant functions/values	114	Work Pad	205	None	0	0	No	No	Narrow scrub-shrub swale within ROW.
144	PEM/SS1E, PFO5E, PSS1B, PFO1E	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	115, 116	Work Pad, Access Matting, Pull Pad	18,815	Structure Installation	25	5908	No	No	Large complex primarily comprised of dense emergent/scrub vegetation, extends north outside of ROW. Adjacent to Mammoth Road Substation.
146A	PEM1F, PEM/SS1E, PEM1E, PSS1C	Groundwater Recharge/Discharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	117, 118, 119	Work Pad, Access Matting	8,463	None	0	20589	No	No	Large srub-shrub/emergent complex extends west out of ROW, portions flooded.
147	PFO1C, PEM/SS1C	Groundwater Discharge	120, 121	Access Matting	2,638	None	0	3705	No	No	Wetland located along gradual slope, drains northeast to southwest.
149	PEM1H, PSS1B, PEM1E, PSS1C, PFO5G	Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat	122, 123	Work Pad, Access Matting	8,694	None	0	12212	No	None	Portions of wetland flooded. Hydrologically connected to WA 149A via culvert under old access path.
149A	PEM1E, PEM1G, PFO5G, PFO5F	Same as 149.	124	Work Pad, Pull Pad, Access Matting, Guard Protection	12,570	None	0	2662	No	None	Portions of wetland flooded. Hydrologically connected to WA 149 via culvert under old access path.
152	PEM1E, PFO1C	Floodflow Alteration, Sediment/Toxicant Retention	125	Work Pad	682	None	0	4138	No	No	
154	PSS1B	Wetland provides no significant functions/values.	126	Access Matting	499	None	0	0	No	No	Small isolated wetland within ROW.
156	PEM1E, PEM1C	Floodflow Alterataion, Sediment/Toxicant Retention.	127, 128	Work Pad, Access Matting	2,228	None	0	6653	No	No	Wetland located downslope of developed industrial property. Dense emergent and scrub-shrub vegetation exists.
160	PEM1E, PSS1C	Floodflow Alteration, Sediment/Toxicant Retention	129, 130	Access Matting	237	None	0	2551	No	No	Wetland abuts Rockingham Road (NH Route 28).
165	PFO1F, PFO1E, PUB2H, PSS/EM1G, PEM1H	Groundwater Recharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Wildlife Habitat.	131, 132	Pull Pad, Access Matting	19,099	None	0	44547	Yes/ VP-165	SA-43/Beaver Brook/Perennial/R2UB1	Beaver activity present, portions of wetland flooded.
166	PSS1B	Same as 167.	133	Pull Pad	802	None	0	0	No	No	Wetland located downslope of developed substation site (Scobie Substation). Appear to receive substation drianage.
167	PEM/SS1E	Floodflow Alteration, Sediment/Toxicant Retention	134	Pull Pad	7,756	None	0	0	No	No	Wetland located downslope of developed substation site (Scobie Substation). Appear to receive substation drianage.
			Overall Total Impacts Square Feet/Acres:		**388,895/8.93**		**4,428/.10**	**473,725/10.88**			

Stream Impact Summary Table

Streams Intersecting the MVRP ROW in New Hampshire													
STREAM ID	**STREAM TYPE**	**NAME**	**COWARDIN CLASS**	**TOWN**	**PERMIT SHEET #**	**ROW OWNERSHIP**	**ASSOCIATED WETLAND**	**BUFFER WIDTH**	**Tree Clearing Impacts (sq ft)**	**Temporary Impacts** (sq ft/ln ft)**	**Permanent Impacts (sq ft/ln ft)**	**PHOTOS**	**NOTES**
Segment 2 (NEP)													
SA-11	Intermittent	Trib. to Tonys Brook	R4SB5/6	Pelham	34	NEP	WA36. WA36A	50	4,796	0	0	1, 2	Two intermittent channels on western edge of ROW.
SA-12	Intermittent	Unnamed	R2UB3	Pelham	40	NEP	WA44	100	1,402	0	0	3	Channel 1-2ft wide, cobble substrate, dry at the time of delineation, Verticle banks. Unnamed trib to Beaver Brook
SA-13	Intermittent	Unnamed	R4SB5	Pelham	40	NEP	WA45, WA45A	50	0	0	0	N/A	Stream Segment at culvert outfall, Channel 1-2ft wide, cobble substrate, dry at the time of delineation, Verticle banks.
SA-14	Perennial	Golden Brook	R2UB2/3	Pelham	42	NEP	WA46	100	0	0	0	4	Channel 10-20ft wide, water 2-4 feet in depth, mud substrate, verticle banks, multiple side channgels, within NHDES Prime Wetland.
SA-15	Perennial	Unnamed	R2UB2	Pelham	50	NEP	WA58, WA58A	100	0	0	0	N/A	Channel 2ft wide, sand substrate, dry at the time of delineation, historically ditched, Beaver Brook tributary.
SA-16	Intermittent	Unnamed	R4SB4/5	Pelham	50	NEP	WA59	50	10	390 / 195 (Work Pads)	0	5,6	Channel 1-2ft wide, sand substrate, dry at the time of delineation, steep banks, drains out of large pond in ROW.
SA-17	Intermittent	Unnamed	R4SB4	Pelham	52	NEP	WA59C	50	0	0	0	N/A	Channel 1-2ft wide, sand substrate, dry at the time of delineation, steep banks, connects two ponds in ROW.
SA-18	Perennial	Unnamed	R2UB1	Windham	54	NEP	WA60	100	1,146	0	0	7	Channel 10-20ft wide, dry at the time of delineation, cobble/boulder, gradual banks, steep.
SA-19	Intermittent	Unnamed	R4SB3	Windham	54	NEP	WA61	50	967	0	0	8	Channel 1-2ft wide, cobble substrate, dry at the time of delineation, Verticle banks.
SA-20	Perennial	Trib. To Beaver Brk	R2UB1	Windham	57	NEP	WA64	100	1,198	0	0	9	Channel 2-4ft wide, cobble substrate. Dry at time of delineation. Flows across access road. Channel is tributary to Beaver Brook.
SA-21*	Perennial	Beaver Brook	R2UB1	Windham	58	NEP	N/A	100	2,759	0	0	10	Channel 30-50ft wide, minimum depth 6-8 inches. Sand, cobble substrate. Bank moderately sloped, vegetated with mature trees. This portion of Beaver is off the western edge of ROW- no crossing.
SA-22	Intermittent	Trib. To Beaver Brk	R4SB3/4	Windham	58	NEP	WA65	50	1,261	0	0	11	Flows south to Beaver Brook. Channel 2-3ft wide, cobble substrate. Channel surrounded by dense scrub-shrub vegetation. Existing bridge not suitable for vehicles.
SA-23	Intermittent	Trib. To Beaver Brk	R4SB4	Windham	60	NEP	WA69A	50	635	0	0	12	Small trib along western edge near Bridle Bridge Road.
SA-24*	Perennial	Beaver Brook	R2UB2/3	Windham/Hudson	61, 62	NEP	WA72	100	1,658	0	0	13	Flows E to W. Channel width 50-75ft. Slow moving meandering channel through densely vegetated emergent/scrub-shrub wetland within ROW. Beaver Brook Crossing at town line - 4th order stream
SA-25	Intermittent	Trib. to Beaver Brk	R4SB4	Hudson	63	NEP	WA75	50	0	0	0	N/A	Small trib on eastern edge of ROW
Segment 3 (PSNH)													
SA-26	Intermittent	Trib. to Robinson Pond	R4SB4	Hudson	65	NEP	WA77, WA77B	50	0	0	0	N/A	Connected via culvert under David Drive.
SA-27	Perennial	Trib. to Robinson Pond	R2UB2	Hudson	65	PSNH	WA77B	100	19,199	0	0	14	Small trib drains to Robinson Pond off ROW. Channel diffuse through large dense emergent wetland within the ROW.

Streams Intersecting the MVRP ROW in New Hampshire

STREAM ID	STREAM TYPE	NAME	COWARDIN CLASS	TOWN	PERMIT SHEET #	ROW OWNERSHIP	ASSOCIATED WETLAND	BUFFER WIDTH	Tree Clearing Impacts (sq ft)	Temporary Impacts** (sq ft/ln ft)	Permanent Impacts (sq ft/ln ft)	PHOTOS	NOTES
SA-28	Intermittent	Trib. to Robinson Pond	R4SB3	Hudson	65	PSNH	WA77C, 77D	50	28,901	0	0	15, 16	Small trib drains to Robinson Pond. 2-4ft wide, cobble substrate, 1ft bank height.
SA-29	Perennial	Howard Brook	R2AB3	Hudson	68	PSNH	WA85	100	26,151	5,053 / N/A **** (Access Matting)	0	17	Hydrologically connected to Robinson Pond, ponded in the ROW, contains aquatic vegetation and dead trees.
SA-30	Perennial	Chase Brook	R2UB2Hb	Hudson/ Londonderry	71	PSNH	WA89	100	16,890	0	0	18	Channel 1-4ft wide, low flow, weakly defined, silt/cobble substrate. Associated downstream pond 3-4f deep, contains aquatic vegetation. Impounded by beaver dam.
SA-31	Intermittent	Unnamed	R4SB	Londonderry	72	PSNH	WA92	50	0	0	0	N/A	Intermittent trib to Chase Brook
SA-32	Perennial	Nesenkeag Brook	R2UB2	Londonderry	74	PSNH	WA97	100	10,845	0	0	19	Channel diffuse/densely vegetated within limits of ROW. Nesenkeag Brook considered Impaired for low dissolved oxygen
SA-33	Intermittent	Unnamed	R4SB3	Londonderry	75	PSNH	WA104	50	10,772	0	0	20	Channel 2-4ft wide, cobble/boulder substrate. Bank height 1-2ft. Dry at time of delineation. Fed by 12" CMP culvert under Elwood Rd.
SA-34	Perennial	Trib. To Nesenkeag Brook	R2UB2	Londonderry	78	PSNH	WA106	100	12,373	0	0	21	Channel 4-15ft wide, blocked by beaver dam. 2-3ft bank height, silt/cobble substrate. Densely vegetated banks. Channel crosses old acccess road, crushed/damaged/ exposed CMP present.
SA-35	Intermittent	Trib. to Nesenkeag Brook	R4SB4	Londonderry	78	PSNH	WA106	50	4,015	0	0	22	Channel 3-10ft wide, runs down old access road. Flow appears to be impounded/blocked by beaver activity. Sandy substrate.
Segment 4 (PSNH)													
SA-36	Perennial	Unnamed	R2UB2	Londonderry	79, 81	PSNH	WA110	100	0	0	0	N/A	Channel 3-4ft wide, stagnant/flooded and vegetated. Flows over access road. Bank height is <1ft.
SA-37	Intermittent	Unnamed	R4SB4	Londonderry	83	PSNH	WA117A	50	6,324	0	0	23	Flows NE to SW, over portion of access trail. Not well defined. Dry at time of delineation.
SA-38	Intermittent	Unnamed	R4SB3	Londonderry	84	PSNH	WA117, WA117B	50	18,195	75 / 37 (Work Pad)	0	24, 25	Channel 1-2ft wide, cobble/silt substrate. Bank height <1ft.
SA-39	Intermittent	Trib. to Nesenkeag	R4SB3/5	Londonderry	86, 87	PSNH	WA128	50	0	271 / 90 (Work Pad)	0	26	Two int. channels on western side of wetland. Channel along southern edge of ROW: 2-4ft wide, cobble/silt substrate. Flow S to N.
SA-40	Intermittent	Trib. to Nesenkeag	R4SB3/5	Londonderry	87	PSNH	WA128	50	0	0	0	N/A	Channel 1-4ft wide, 1ft bank height, silt substrate in ROW, cobble/silt off ROW. USGS shows as perennial. Flow S to N. Exposed 36" CMP present at ROW edge.
SA-41	Intermittent	Trib. to Nesenkeag	R4SB4	Londonderry	87	PSNH	WA128, WA128A	50	23,059	576 / 288 (Work Pad, Pull Pad)	80/17***	27, 28, 29	Channel 1-2ft wide, vegetated. Bank height <1ft. Not well defined, dry at time of delineation. Fed by culvert under High Range Road.
SA-149A	Intermittent	Unnamed	R4SB4	Londonderry	96	PSNH	WA149	50	0	0	0	30	Small intermittent channel drains to wetland WA 149. Channel 2ft wide, sand. Bank height <1ft.
SA-43	Perennial	Beaver Brook	R2UB1	Londonderry	101	PSNH	WA165	100	4,410	0	0	31, 32	N to S flow. Channel 8-10ft wide, bank height 1-2ft, depth 6-24 inches. Vegetated bottom. Beaver activity present.Located just west of Scobie Substation.
								Overall Total Impacts Square Feet/Acres:	**196,966/4.52**	**6,365 sq ft/610 ln ft (0.15 ac)**	**80 sq ft/17 ln ft**		

Notes: *Beaver Brook is a 4th order stream at SA-21 and SA-24, and is therefore subject to permitting under the Shoreland Water Quality Protection Act (RSA 483-B).

** The majority of the streams intersecting the ROW that require crossing will be spanned from beyond their jurisdictional banks using timber mats resulting in no impacts. However, temporary impacts indicate where mats spans are not likely feasible, and where mats will be temporarily placed across the channel during project construction.

*** Permanent bed impacts are the result of proposed partial realignment of SA-41 in order to ensure the long-term stability of proposed Structure 253.

**** Access matting will be placed perpendicular to the channel, therefore linear feet along the channel reach is not applicable. The length of the crossing eliminates the possibility of spanning the channel with mats from bank to bank.

Attachment C

Representative Site Photographs

Representative Wetland Photographs

Wetland Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 1: View northwest toward WA 30. Construction work pad is planned in this area for pole installation outside of wetland. Limited tree clearing proposed along edge of ROW. 10/07/2014.

Photo 2: View southwest toward WA 31. General location of planned tree clearing. Construction work pad planned just outside of wetland. 10/07/2014.

Photo 3: View south toward WA 32. Construction work pad is planned in this area for pole installation and removal outside of wetland. 10/07/2014.

Photo 4: View west toward WA 33. Construction work pad is planned in this area for pole installation and removal outside of wetland. 10/07/2014.

Photo 5: View west toward WA 34. Construction work pad is planned in this area for pole installation and removal outside of wetland. 10/07/2014.

Photo 6: View west of access road along edge of WA 36. 04/20/2015.

Photo 7: View northwest toward access road along the edge of WA 36. 04/20/2015.

Photo 8: View south of WA 36. Construction work pad planned to extend into wetland. 04/20/2015.

Photo 9: View northwest toward WA 36A. Construction work pad for pole installation in wetland to extend into this section of the wetland. Tree clearing proposed in wetland along ROW. 10/08/2014.

Photo 10: View southeast of access road through WA 37 where timber access matting is planned. Construction work pad for pole installation is planned just outside of wetland. 10/08/2014.

Photo 11: View west toward WA 39. Construction work pad is planned in this area for pole installation outside of wetland. 10/08/2014.

Photo 12: View east toward WA 39. Timber access matting is planned in this area. 10/08/2014.

Photo 13: View southeast toward WA 40. Limited tree clearing planned along edge of ROW. 10/08/2014.

Photo 14: View west toward WA 41. Limited tree clearing planned along edge of ROW. 10/08/2014.

Photo 15: View southwest toward WA 42C. Construction work pad planned to extend into this wetland for pole installation and removal outside of wetland. Timber access matting is planned along access road through eastern section of wetland. Limited tree clearing planned along edge of ROW. 10/07/2014.

Photo 16: View north toward WA 43 where limited tree clearing is planned. 10/07/2014.

Photo 17: View north toward WA 44. Construction work pad for pole installation in upland to extend into this section of the wetland. 10/08/2014.

Photo 18: View northeast toward WA 44. Construction work pad for pole installation in upland to extend into this section of the wetland. Timber access matting is planned along access road through eastern section of wetland. Tree clearing proposed in wetland along ROW. 10/08/2014.

Photo 19: View north toward WA 45. Timber access matting is planned in this area. 10/08/2014.

Photo 20: View south toward WA 45. Construction work pad for pole installation in upland to extend into this section of the wetland. Tree clearing proposed in wetland along ROW. 10/08/2014.

Photo 21: View south toward WA 46. Construction work pad for pole installation in upland to extend into this section of the wetland. Timber access matting is planned along access road through eastern section of wetland. Tree clearing proposed in wetland along ROW. 10/08/2014.

Photo 22: View east toward WA 46. Construction work pad for pole installation in upland to extend into this section of the wetland. 10/08/2014.

Photo 23: View north toward WA 46. Timber access matting is planned in this area. 10/08/2014.

Photo 24: View north of access road through WA 48 where timber access matting is planned. 10/09/2014.

Photo 25: View north of access road through WA 48 where timber access matting is planned. Construction work pad also planned in this general area for pole installation and removal outside of wetland. 10/09/2014.

Photo 26: View west toward WA 49. Construction work pad planned to extend into a section of this wetland for pole installation and removal outside of wetland. Limited tree clearing planned along edge of ROW. 10/09/2014.

Photo 27: View southeast toward WA 49 where a construction work pad is planned to extend into a section of the wetland for pole installation outside of wetland. 10/09/2014.

Photo 28: View north of NEP access road through toward WA 50 where timber access matting is planned. Tree clearing planned within wetland along edge of ROW. 10/09/2014.

Photo 29: View north of WA 50 where construction work pad is planned for pole installation and removal outside of wetland. General location of proposed permanent road crossing. 10/09/2014.

Photo 30: View northwest toward WA 50 where construction work pad is planned for pole installation outside of wetland. 10/09/2014.

Photo 31: View northwest toward WA 50 where construction work pad is planned to extend into a section of the wetland for pole installation outside of wetland. Tree clearing planned along edge of wetland. 10/09/2014.

Photo 32: View north toward WA 52. Construction work pad is planned in this area for pole installation outside of wetland. 10/09/2014.

Photo 33: View south toward WA 52 where timber access matting is planned to cross wetland. 10/09/2014.

Photo 34: View south toward WA 52. A construction work pad is planned to cross the wetland east of photo for pole removal just outside of wetland. Tree clearing proposed within wetland along edge of ROW. 10/09/2014.

Photo 35: View north toward WA 53. Timber access matting planned for access road through this wetland. Construction work pad for pole installation will extend into the wetland. 10/09/2014.

Photo 36: View south toward WA 54. A construction work pad for pole installation will extend into the wetland to the left of photo. Tree clearing proposed in wetland along edge of ROW. 10/09/2014.

Photo 37: View southeast toward WA 54A. Two construction work pads planned near this area, one for pole installation outside wetland and one to install Structure 51 within wetland. Timber access matting planned along NEP access road into wetland. 10/09/2014.

Photo 38: View west toward WA 59. Construction work pad for pole installation and removal outside of wetland planned in this area. 10/09/2014.

Photo 39: View east toward WA 59. Construction work pad for pole installation and removal outside of wetland planned in this section of the wetland. Timber access matting also planned along NEP access road along edge of wetland. 10/09/2014.

Photo 40: View west toward WA 59D. Construction work pad for pole installation planned in this section of the wetland. 10/09/2014.

Photo 41: View south toward WA 59G. Guard protection area proposed to extend into wetland in this area. 05/15/2015.

Photo 42: View southwest toward WA 60 and SA-18. Tree clearing planned along edge of ROW along the edge of wetland. 04/21/2015.

Photo 43: View north of WA 61. Tree clearing proposed along edge of ROW within this wetland. 04/21/2015.

Photo 44: View north of NEP access road through WA 62 where timber access matting and stone ford installation is planned. 10/09/2014.

Photo 45: View west of unnamed intermittent stream in WA 65. Tree clearing planned nearby. 10/09/2014.

Photo 46: View north toward WA 69. Construction work pad for pole installation outside of wetland to extend into this section of this wetland. Timber access matting planned along access road adjacent to WA 69A. 10/09/2014.

Photo 47: View west toward WA 69. Construction work pad for pole installation and removal outside of wetland and guard protection area. 10/09/2014.

Photo 48: View southwest toward WA 69A. Construction work pad for pole installation outside of wetland to extend into a section of this wetland. Timber access matting planned along access road adjacent to WA 69. 10/09/2014.

Photo 49: View southeast toward WA 72. Construction work pad for pole installation proposed northwest of photo. 10/08/2014.

Photo 50: View north toward WA 73. Construction work pad for pole installation outside of wetland to extend into this section of the wetland. Tree clearing proposed in wetland along ROW. 10/08/2014.

Photo 51: View south toward WA 75A. Construction work pad planned to extend into wetland for pole installation outside of wetland. 10/08/2014.

Photo 52: View north toward WA 75B. NEP access road where timber access matting is planned to right of photo. 10/08/2014.

Photo 53: View east toward second NEP access road through WA 75B where timber access matting is planned. 10/08/2014.

Photo 54: View north of WA 78. Tree clearing planned along visible tree-line. Construction work pad for pull pad site to extend into part of this wetland to right of photo. Timber access matting planned along access road through wetland. Guy anchor installation also proposed within this wetland. 10/08/2014.

Photo 55: View southeast of WA 77B. Tree clearing planned to the right of photo. 10/08/2014.

Photo 56: View west of Eversource access road through WA 77C where timber access matting is planned. Tree clearing planned within wetland along edge of ROW. 10/08/2014.

Photo 57: View north toward WA 77C. Tree clearing planned in this general area. 10/08/2014.

Photo 58: View south of Eversource access road through WA 77D where timber access matting is planned. 10/07/2014.

Photo 59: View south of WA 86 where tree clearing is planned. 10/06/2014.

Photo 60: View west of WA 86. Tree clearing planned to the west of photo. Construction work pad for installing Structure 212 within wetland to the left of photo. 10/06/2014.

Photo 61: View southeast of Eversource access road through WA 86 where timber access matting is planned. Proposed tree clearing to the left of photo. 10/06/2014.

Photo 62: View southeast of vernal pool within WA 88. Proposed tree clearing planned to the right of photo. 10/06/2014.

Photo 63: View southeast toward WA 89. Tree clearing proposed along the edges of this wetland. 10/06/2014.

Photo 64: View south toward vernal pool within WA 90. Limited tree clearing planned along the edges of the wetland within the general visible area. 10/06/2014.

Photo 65: View east of WA 91 where limited tree clearing is planned. 10/05/2014.

Photo 66: View southwest of WA 92. Proposed tree clearing planned northeast of photo. 10/05/2014.

Photo 67: View northeast of WA 93. Tree clearing proposed southwest of photo. 10/03/2014.

Photo 68: View east of WA 93. Timber access matting is planned along access road through the wetland (to left of photo). Further southeast of photo a construction work pad is planned to install Structure 222 within the wetland. Tree clearing planned to the left of photo. 10/03/2014.

Photo 69: View southeast toward WA 94. Tree clearing is planned along part of this wetland. 05/15/2015.

Photo 70: View east toward WA 95. Construction work pad for pole installation to extend into wetland area. Pole to be installed just outside of wetland. 10/03/2014.

Photo 71: View northwest along Eversource access road through WA 97 where timber access matting is planned. 10/03/2014.

Photo 72: View northeast toward WA 97 and Nesenkeag Brook. Limited tree clearing proposed along visible tree-line. 10/03/2014.

Photo 73: View west toward WA 98, tree clearing planned to right of photo. Vernal pool located in this wetland north of photo. 10/03/2014.

Photo 74: View east toward WA 99. Tree clearing is planned along the edge of this wetland. 05/15/2015.

Photo 75: View east toward WA 101 near the edge of proposed construction work pad area for nearby pole installation just outside of wetland. Tree clearing planned nearby. 10/03/2014.

Photo 76: View north toward WA 101. Tree clearing planned south of photo. 10/03/2014.

Photo 77: View west of the edge of WA 102A where tree clearing is planned. 10/03/2014.

Photo 78: View west toward vernal pool within WA 102. Tree clearing planned nearby. 10/03/2014.

Photo 79: View south of WA 102 near location of construction work pad for pole installation outside of wetland. Tree clearing planned nearby. 10/03/2014.

Photo 80: View northeast toward WA 102C. Proposed tree clearing is planned nearby. 10/03/2014.

Photo 81: View east toward intermittent stream in WA 104 where limited tree clearing is proposed. 10/03/2014.

Photo 82: View east of WA 105. Tree clearing planned to the west of photo. 10/02/2014.

Photo 83: View northeast toward WA 105A. Tree clearing planned within this wetland. 05/15/2015.

Photo 84: View east toward WA 105B where tree clearing is planned. 05/15/2015.

Photo 85: View east of unnamed perennial stream in WA 106 where limited tree clearing is planned. 10/02/2014.

Photo 86: View west toward WA 108. Construction work pad to extend into edge of wetland as part of a large pull pad site. Guy anchor installation also proposed within this wetland. 10/02/2014.

Photo 87: View east of WA 109 where construction work pad is planned along the edge of the wetland as part of a large pull pad site. 10/02/2014.

Photo 88: View northeast toward WA 110. Tree clearing planned in this area. 10/02/2014.

Photo 89: View south of the Eversource access road through first section of WA 111 where timber access matting is planned. Construction work pad site and proposed tree clearing left of photo. 10/02/2014.

Photo 90: View south of Eversource access road through second section of WA 111 where timber access matting is planned. Further south a construction work pad is planned for pole installation. 10/02/2014.

Photo 91: View south of WA 112. Further south is the Eversource access road where timber access matting is planned. Tree clearing planned nearby. Construction work pad for pole installation also planned nearby. 10/02/2014.

Photo 92: View south of Eversource access road through WA 114 where timber access matting is planned. Narrow strip of trees visible is proposed to be cleared. 10/01/2014.

Photo 93: View north, location of vernal pool within WA 114. Planned tree clearing nearby. 10/01/2014.

Photo 94: View south of Eversource access road through WA 115 where timber access matting is planned. 10/01/2014.

Photo 95: View northeast of WA 115. Tree clearing and construction work pad for pole installation planned to the left of photo. 10/01/2014.

Photo 96: View southwest of Eversource access road through WA 117 where timber access matting is planned. Northeast of photo is location for construction work pad and pole installation. Pad to extend into wetland, pole to be installed just outside of wetland. 10/01/2014.

Photo 97: View northeast toward WA 117A where tree clearing is planned. 05/15/2015.

Photo 98: View southwest toward WA 117. Northeast of photo is the location of proposed construction work pad for pole installation. Tree clearing is planned to the left of photo. 10/01/2014.

Photo 99: View northwest of WA 117B where an intermittent stream runs through the wetland. Location of construction work pad for pole installation to right of photo. Tree clearing also planned. 10/01/2014.

Photo 100: View east toward WA 120 where construction work pad is planned. 05/15/2015.

Photo 101: View south toward WA 123 where tree clearing is planned. 05/15/2015.

Photo 102: View south toward WA 124. Construction work pad proposed along the edge of this wetland. Tree clearing proposed within this wetland.

Photo 103: View west toward WA 125 where tree clearing is planned. 05/15/2015.

Photo 104: View north of Eversource access road through WA 127 where timber access matting is planned. 10/01/2014.

Photo 105: View east toward Eversource access road through WA 128 where timber access matting is planned. Construction work pad planned for area further east for pole installation in an upland area within wetland WA 128. Tree clearing is also planned for this area. 10/01/2014.

Photo 106: View west toward WA 128. Planned location of a large construction work pad area for pull pad and guard protection area. Structure 253 proposed to be installed just inside this wetland. Tree clearing proposed to right of photo. Guy anchor installation also proposed in this area. 09/30/2014.

Photo 107: View southeast toward WA 128A of area where clearing is planned. General location of construction work pad for pole installation just outside of wetland. 09/30/2014.

Photo 108: View east toward WA 132. Tree clearing is planned to right of photo. 09/30/2014.

Photo 109: View west along Eversource access road through WA 132 where timber access matting is planned. Tree clearing also planned within this wetland. 09/30/2014.

Photo 110: View east toward WA 133. Location of planned tree clearing. 09/30/2014.

Photo 111: View east toward WA 137. Tree clearing proposed within wetland along edge of ROW. 09/30/2014.

Photo 112: View west toward WA 137. To the west is the location of a construction work pad for pole installation just outside of wetland. 09/30/2014.

Photo 113: View east toward WA 141. Tree clearing is planned to the left of photo. A construction work pad for pole installation is to cross a corner of the wetland. 09/29/2014.

Photo 114: View northeast toward WA 143 where construction work pad is proposed to extend into wetland. 05/15/2015.

Photo 115: View east toward WA 144 along Eversource access road where timber access matting is planned. Clearing planned to right of photo. 09/30/2014.

Photo 116: View west of WA 144. Location of construction work pad to install Structure 263. Access road nearby. East of photo is location of proposed construction work pad for pull pad site. 09/29/2014.

Photo 117: View northeast toward WA 146A along Eversource access road where timber access matting is planned. 09/26/2014.

Photo 118: View north towards WA 146A. Near proposed structure where construction work pad is planned. Tree clearing planned to the left of photo. Access road just outside of wetland. 09/26/2014.

Photo 119: View west toward Eversource access road crossing WA 146A where timber access matting is planned. Tree clearing also planned within this wetland. 09/26/2014.

Photo 120: View west of WA 147 where tree clearing is planned. 09/26/2014.

Photo 121: View southeast of WA 147. Timber access matting planned where Eversource access road crosses wetland. 09/26/2014.

Photo 122: View northeast toward WA 149. Tree clearing is planned is to the right of the photo. Construction work pad planned on edge of wetland in general location of photo. 09/25/2014.

Photo 123: View west toward wetland WA 149 from access road between WA 149 and WA 149A. Tree clearing planned for strip of trees in the middle of ROW. 09/25/2014.

Photo 124: View northeast along Eversource access road toward WA 149A where timber access matting is planned. Construction work pad for pole installation and guard protection area proposed east of photo. Tree clearing also planned within this wetland. 09/25/2014.

Photo 125: View west of WA 152 toward the strip of trees proposed to be removed. Construction work pad and tree clearing planned within wetland. 09/25/2014.

Photo 126: View east toward WA 154 where access matting is planned. 05/15/2015.

Photo 127: View west toward southern end of WA 156 along access road. Location of timber mat access. Tree clearing planned to right of photo. 09/25/2014.

Photo 128: View east toward Eversource access road through WA 156 where timber access matting is planned. 09/25/2014.

Photo 129: View east toward southern end of WA 160 along access road. Access matting is planned to the east. Tree clearing planned to right of photo. To the north of photo is the proposed location for a construction work pad for pole installation. 09/25/2014.

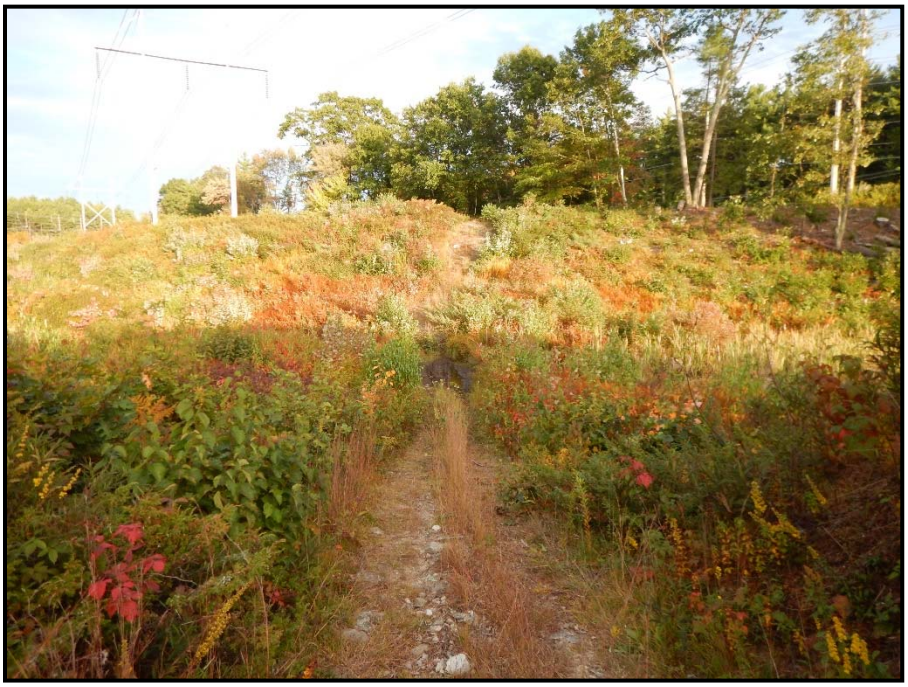

Photo 130: View east of Eversource access road through WA 160. Timber access matting proposed along access road through wetland. Tree clearing planned within wetland. 09/25/2014.

Photo 131: View south along Eversource access road through WA 165 where timber access matting is proposed. Clearing planned within wetland along ROW edges.09/25/2014.

Photo 132: View west of WA 165 in wooded area; general location of where a construction work pad is to be placed for pole installation and pull pad site. General location for guy anchor installation. 09/25/2014.

Photo 133: View southwest of Eversource access road next to WA 166. A construction work pad is to be placed over part of this wetland for a pull pad site. General location for guy wire installation. 09/24/2014.

Photo 134: View south toward WA 167 near the Scobie Pond Substation. A construction work pad is to be placed over part of this wetland for a pull pad site. 09/24/2014.

Photo 135: View northeast to OR2 at location of proposed permanent crossing. 04/21/2015.

Representative Stream Photographs

Stream Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation NH

Photo 1: View west of intermittent stream SA-11 to the south of Dutton Road. Limited tree clearing is proposed along western edge of the ROW in this location. 10/08/2014.

Photo 2: View east of intermittent stream SA-11 where limited tree clearing is planned along the western edge of the ROW to the north of Dutton Road within WA36A .04/21/2015.

Photo 3: View east of intermittent stream SA-12 where limited tree clearing is planned along the western edge of the ROW. 04/21/2015.

Photo 4: View of Golden Brook (SA-14), a perennial stream located within Lower Golden Brook Prime Wetland. Minimal tree clearing, as well as construction work pads are planned along the edge of the brook. Structure 34 and 98 are planned to be installed adjacent to (north of) the brook. 04/21/2015.

Photo 5: View northwest where timber mat access is planned along NEP access road across perennial stream SA-16. 10/09/2014.

Photo 6: View northeast of SA-16 where construction work pads are planned for pole installation and removal. 04/21/2015.

Photo 7: View west of perennial stream SA-18 where limited tree clearing is planned. 04/24/2015.

Photo 8: View southwest of intermittent stream SA-19 where limited tree clearing is planned. 04/21/2015.

Photo 9: View west of perennial stream SA-20. Limited tree clearing is planned along the western edge of the ROW adjacent to this channel. 10/09/2014.

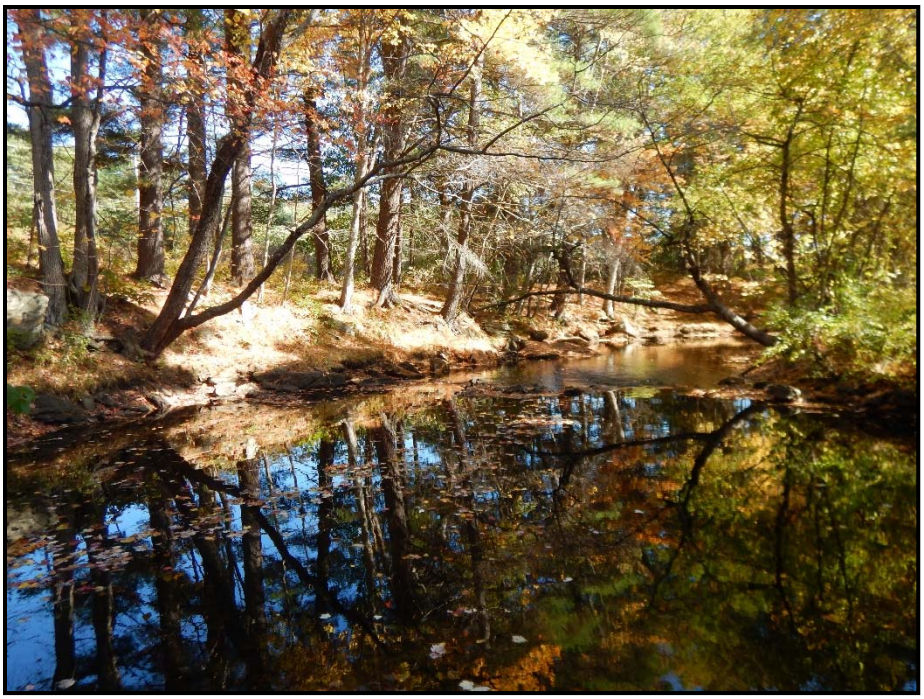

Photo 10: View of Beaver Brook (SA-21) looking east toward NEP ROW. Limited tree clearing is planned along the edge of the ROW. 10/09/2014.

Photo 11: View west of intermittent stream SA-22 towards proposed tree clearing along western edge of NEP ROW. 10/09/2014.

Photo 12: View of perennial stream SA-23 where limited tree clearing is planned. 04/21/2015.

Photo 13: View southeast of Beaver Brook (SA-24) to the north NH Route 111. Limited tree clearing is proposed adjacent to the brook along the western edge of the ROW. 10/08/2014.

Photo 14: View southeast to the start of perennial stream SA-27 where it flows west out of WA77B. Tree clearing is planned in this area. 10/08/2014.

Photo 15: View west of PSNH access road crossing intermittent stream SA-28 where timber access matting is planned. 10/08/2014.

Photo 16: View southeast of intermittent stream SA-28 where tree clearing is planned. 10/08/2014.

Photo 17: View southeast of SA-29 (Howard Brook) where timber access matting is planned. Additionally, limited tree clearing is proposed along the eastern edge of the ROW. 10/06/2014.

Photo 18: View northeast of Chase Brook (SA-30) where tree clearing is planned along the eastern edge of the ROW. 10/06/2014.

Photo 19: View southeast of access road where timber access matting is planned across Nesenkeag Brook (SA-32). Limited tree clearing is planned along the eastern edge of the ROW (photo left). 4/22/2015.

Photo 20: View south of SA-33 looking toward ROW where tree clearing is planned. 10/02/2014.

Photo 21: View east of perennial stream SA-34 along the eastern edge of the ROW where tree clearing is planned. 10/02/2014.

Photo 22: View northeast of intermittent stream SA-35along the eastern edge of the ROW where tree clearing is planned. 10/02/2014.

Photo 23: View south of ROW access road crossing intermittent stream SA-37 where timber access matting is planned. Tree clearing is also planned down the center of the ROW in this location. 10/01/2014.

Photo 24: View west of intermittent stream SA-38 where tree clearing is planned down the center of the ROW. 10/1/2014.

Photo 25: View south of ROW access road crossing intermittent stream SA-38 where timber access matting is planned. 04/22/2015.

Photo 26: View north of intermittent stream SA-39. Construction work pad for pole installation to extend across stream. Timber access matting planned where ROW access road crosses stream. 04/22/2015.

Photo 27: View west of intermittent stream SA-41 where construction work pad and tree clearing is planned. 04/21/2015.

Photo 28: View west of intermittent stream SA-41 where construction work pad is planned for pull pad site. Also location of planned tree clearing. South of photo is where Structure 253 is proposed to be installed adjacent to channel. 04/21/2015.

Photo 29: View east to proposed location of outlet of realigned western end of stream SA-41 within wetland WA 128. 04/21/2015.

Photo 30: View west of SA-149A which flows into wetland WA 149. 04/22/2015.

Photo 31: View northeast of ROW access road crossing perennial stream SA-43 where access matting is planned. 09/25/2014.

Photo 32: View northwest of SA-43. Access matting across stream planned nearby. Tree clearing also planned southern side ROW adjacent to this stream. 09/25/2014.

Attachment D

Natural Resource Agency Correspondence

NHNHB Correspondence

Memo

NH Natural Heritage Bureau
NHB Datacheck Results Letter

To: Kristopher Wilkes, Vanasse Hangen Brustlin, Inc.
2 Bedford Farms Dr., Suite 200
Bedford, NH 03110

From: Melissa Coppola, NH Natural Heritage Bureau
Date: 12/17/2014 (valid for one year from this date)
Re: Review by NH Natural Heritage Bureau
NHB File ID: NHB14-4809 Town: Pelham, Windham, Hudson, Derry Location: Tax Maps: Existing Electric Transmission Line Right-of-Way

Description: On behalf of New England Power Company d/b/a National Grid ("NEP") and Public Service Company of New Hampshire ("PSNH") (the "Proponents"), Vanasse Hangen Brustlin, Inc. is submitting the enclosed request for project review for the Merrimack Valley Reliability Project ("MVRP"), a new 345kV electric transmission line ("Line 3124") within an existing right-of-way ("ROW") between NEP's Tewksbury 22A Substation in Tewksbury, Massachusetts and PSNH's Scobie Pond Substation in Londonderry, New Hampshire. The installation of this new line would relieve potential overloads under various conditions on several elements of the area transmission system. In doing so, the MVRP ensures continued compliance with all applicable federal and regional transmission system reliability standards and criteria, and maintains reliable electric service to customers in the area.

The portion of the MVRP located within New Hampshire that is the subject of this project review request is referred to herein as "the Project". The Project proposes approximately 18 miles of new 345-kV transmission line on existing ROW within the Towns of Pelham, Windham, Hudson, and Derry. NEP will own approximately 8.1 miles of the new line in Pelham, Windham, and Hudson. PSNH will own approximately 9.7 miles of the new line in Londonderry and Hudson. No new ROW is anticipated, however, portions of existing ROW that have not been cleared previously will require removal of trees to accommodate portions of the new transmission line and relocated existing lines. The Project requires approval from the NH Site Evaluation Committee (SEC).

There are several existing transmission lines located within the Project ROW. Line 3124 has been designed within the ROW to minimize, to the greatest extent practicable, disruption to existing transmission line alignments. Line 3124 will be constructed within previously uncleared portions of the 10-mile PSNH ROW. Line 3124 will be constructed in the current location of the Y151 transmission line (115kV) within the 8.1-mile NEP ROW. The existing Y151 line will be relocated to the western side of the NEP ROW. New or relocated structures will include wooden H-frame, steel lattice tower and single pole structures. Depending on the structure type, structures will be direct embedded or constructed on a caisson foundation.

Environmental impacts associated with the Project will be limited in nature because the Project will be contained within the existing ROW. Swamp mats will be used to minimize disturbance within wetland resource areas where vehicle access is necessary. To the extent possible, the structures will be accessed directly from existing roads within the ROW corridor. Crews will use public roads intersecting the ROW and other established access points to enter the transmission corridor.

cc: Kim Tuttle

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Comments: This site is within an area flagged for possible impacts on the state-listed *Alasmidonta varicosa* (brook floater) in the Golden Brook. There will need to be a pre-application meeting to discuss impacts to plants, natural communities, and wildlife.

Invertebrate Species	State[1]	Federal	Notes
Brook Floater (*Alasmidonta varicosa*)	E	--	Contact the NH Fish & Game Dept (see below).

Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
PO Box 1856
Concord NH 03302-1856

Memo

NH Natural Heritage Bureau
NHB Datacheck Results Letter

Natural Community	State[1]	Federal	Notes
Medium level fen system*	--	--	Level fens are stagnant, and as such are characterized by low nutrient levels, relatively high acidity levels, and accumulations of peat. The primary threats to this community are changes to its hydrology (especially that which causes pooling), increased nutrient input from stormwater runoff, and sedimentation from nearby disturbance.
Swamp white oak floodplain forest	--	--	Threats are primarily changes to the hydrology of the river, land conversion and fragmentation, introduction of invasive species, and increased input of nutrients and pollutants.

Plant species	State[1]	Federal	Notes
bird-foot violet (*Viola pedata*)	T	--	This species occurs in sandplains, disturbed openings, dry forests, and thin woods. Threats would include direct destruction of the plants or major alterations in their habitat.
bulbous bitter-cress (*Cardamine bulbosa*)*	E	--	This species occurs in forested swamps, low floodplain forest, and moist thickets.. Threats to the plants include canopy removal and destruction (draining) of its habitat.
common star-grass (*Hypoxis hirsuta*)	T	--	This species occurs in sandplains, disturbed openings, dry forests, and thin woods. Threats would include direct destruction of the plants or major alterations in their habitat.
Eight-flowered Six-weeks Grass (*Vulpia octoflora var. tenella*)*	E	--	This species occurs in sandplains, disturbed openings, dry forests, and thin woods. Threats would include direct destruction of the plants or major alterations in their habitat.
meadow garlic (*Allium canadense*)	E	--	Threats are primarily those that would affect this plant's habitat (river or streambanks, forested swamps, low floodplain forest/moist thickets, wet meadows), including changes to local hydrology.
Palmate Violet (*Viola palmata*)	E	--	**Recommended for delisting due to taxonomic issues (hybrid)
Perfoliate Bellwort (*Uvularia perfoliata*)	E	--	The habitat of this species is mesic forests, which would be threatened by fragmentation or canopy reduction that led to drying out of the soils.
River Birch (*Betula nigra*)	T	--	The population could be deleteriously affected by any project activities that alter the hydrology of its habitat, by increased sedimentation, and by increased nutrients/pollutants in stormwater runoff.
round-leaved trailing tick-trefoil (*Desmodium rotundifolium*)	T	--	This species occurs in sandplains, disturbed openings, dry forests, and thin woods. Threats would include direct destruction of the plants or major alterations in their

Department of Resources and Economic Development
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			habitat.
smooth forked whitlow-wort (*Paronychia canadensis*)*	E	--	Threats include any major changes to its habitat, which includes dry forests and thin woods.

Vertebrate species	**State[1]**	**Federal**	**Notes**
Blanding's Turtle (*Emydoidea blandingii*)	E	--	Contact the NH Fish & Game Dept (see below).
Grasshopper Sparrow (*Ammodramus savannarum*)*	T	--	Contact the NH Fish & Game Dept (see below).
Northern Black Racer (*Coluber constrictor constrictor*)	T	--	Contact the NH Fish & Game Dept (see below).
Spotted Turtle (*Clemmys guttata*)	T	--	Contact the NH Fish & Game Dept (see below).
Wood Turtle (*Glyptemys insculpta*)	SC	--	Contact the NH Fish & Game Dept (see below).

[1]Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

Contact for all animal reviews: Kim Tuttle, NH F&G, (603) 271-6544.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

Department of Resources and Economic Development
Division of Forests and Lands
(603) 271-2214 fax: 271-6488

DRED/NHB
PO Box 1856
Concord NH 03302-1856

Memorandum

To: Melissa Coppola and Amy Lamb, Natural Heritage Bureau

Date: May 8, 2015

Project #: 12650.01

From: Darrell Oakley

Re: Merrimack Valley Reliability Project Rare Plant Surveys

Introduction

Eversource and National Grid have teamed up to implement the construction of a new transmission line between Londonderry, New Hampshire, and Tewksbury, Massachusetts. This proposed project is called the Merrimack Valley Reliability Project, and is one of the suite of projects for the Greater Boston and New Hampshire Solution being undertaken by Eversource and National Grid.

The Merrimack Valley Reliability Project will consist of installing a new 345-kilovolt (kV) overhead line along 24.6 miles of an existing power line corridor. Approximately 18 miles of the line will pass through Londonderry, Hudson, Windham and Pelham in New Hampshire, and 6.5 miles through Dracut, Andover and Tewksbury in Massachusetts. Data provided by the Natural Heritage Bureau database has identified rare plant species known to occur near the planned project in Windham and Pelham. Please see the attached permitting plans that show the Natural Heritage Bureau rare plant mapping on the project right of way. Table 1 below is a listing of these species and their status.

Table 1 Listed Plants Known to Occur near the MVRP Project

Scientific Name	Common Name	Listing Status
Desmodium rotundifolium	Round-leaved trailing tick trefoil	Threatened
Hypoxis hirsuta	Yellow Star Grass	Threatened
Paronychia canadensis	Smooth forked Whitlow-wort	Endangered
Vulpia octoflora	Eight –flowered six weeks grass	Endangered

As part of the early planning stages of the new transmission line project, National Grid and Eversource plan to identify the locations of rare plants that may occur near the proposed project. The following information is a field survey protocol that will be implemented to identify the locations of any such rare plant species that may occur on the right of way.

Study Area

The attached permitting sheets illustrates the mapped polygons where rare plant surveys are planned. Table 2 (attached) lists typical habitat types where the listed plants identified in Table 1 area known to occur.

Survey Approach

During each visit, two field scientists will systematically walk segments of the project right of way in search of listed plant species in areas where listed plants have previously been recorded. In general, the field scientists will walk along and across the width of the right of way in overlapping zigzag patterns searching for listed plant species. In the event

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P 508.752.1001

that any rare plants are found, they will be counted and their location(s) recorded with GPS. Important diagnostic features to identify each of the listed plants known to occur near the project area are provided in Table 2.

If large numbers of a listed plant species are found in a given location, the field scientists will walk the area and temporarily mark the location of each individual plant (including genet or ramet as appropriate) with wire staked survey flags. The field scientists will continue to do so until no new plants are found. After completing this task the outer perimeter of the plant concentration will be recorded as an area feature (polygon) with the GPS units. Simultaneously with recording the location of the listed species polygon, the numbers of plants will be counted in the polygon and the wire survey stakes removed.

In the event that the plants are too numerous to count in a given location, numbers will be estimated. To estimate large numbers of listed plants, the perimeter of where the plants are concentrated will be marked in the field using the same wire staked survey flags and recorded with the GPS units as described above. This information will be used to calculate the overall surface area of the listed plant concentration. Within the listed plant concentration area, plants will be counted within a number of round sample plots (of appropriated size based on the overall size of the polygon), the locations of which will be determined randomly in the field. The number of plots to be sampled will be determined in the field based on the size of the rare plant concentration area. Based on this information, estimates of rare plant density and numbers will be calculated.

Representative photographs will be taken of selected individual plants and of the area where they are located. Notes will also be taken describing site conditions, the occurrence of other vascular plant species and any apparent threats to the area including the presence of invasive species.

Schedule and Search Effort

Phenology information for each of the listed plant species is provided in Table 2. Taking into considerations the overlap of optimum viewing times to see important diagnostic features, Table 2 identifies widows of opportunity for optimum field survey efforts. Based on this information, searches for rare plants within each of the study areas will be made on at least three occasions during June and July. During each of the three survey windows, two-field scientist will search for rare plants within the study area.

Report Preparation

Following completion of field survey efforts, a report will be submitted to the NHB. The report will include survey protocols and any changes to protocols required by unforeseen conditions, descriptions of the study area, a list of plant species found within areas searched, specific locations of rare plants if found, densities and estimates of rare plant population sizes, photographs of general habitat conditions and representative rare plants that are found. In addition, included within the report will be figures that delineate the study area and specific locations of rare plants.

Avoidance and Minimization

There are two phases of the project. The first phase is geotechnical borings slated for summer 2015; the second phase is project construction the following year. Geotechnical borings are proposed at each structure. Rare plant areas will be flagged in the field and cordoned off from the geotechnical borings. At this time, we anticipate that the boring locations can be flexible so that borings will be able to avoid rare plant locations. Once rare plant mapping is completed in June and July 2015, we will assess the project design to determine if the project can be redesigned to avoid impacts.

Rare plant areas will be checked again in 2016 prior to construction and reflagged in the field. Rare plant areas would be cordoned off again and protected prior to project construction. If redesign cannot completely avoid rare plant areas, then Eversource and National Grid would seek to mitigate impacts.

Table 2 Rare Plant Phenology, Important Diagnostic Features and Habitat

Common Name	Scientific Name	Family	NH Status	Phenology																				Distinguishing Diagnostic Features	Habitat/Phenology
				APRIL				MAY				JUN				JUL				AUG				SEPT				OCT					
Round-leaved trailing tick trefoil	*Desmodium rotundifolium*	*Fabaceae*	T													Δ	Λ	Λ	Λ	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO					FNA (579) Stems prostrate: inflorescences primarily axillary; terminal leaflet mostly 0.8- 1.2 times as long as wide; **Leaves and growth form distinduishing**	FNA (581) Dry-mesic forests and woodlands, commonly associated with rocky slopes; MVP (295) Dry woods especially in sandy soil July - August; FNe (680) Rich or dry , often rocky woods (August - September)
Yellow Star Grass	*Hypoxis hirsuta*	*Hypoxidaceae*	T	Δ	Δ	Δ	Δ	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO													MVP (841) Leaves linear and pilose, 2-10 mm wide, 6 dm at anthesis,bearing an irregular unbel of 2-6 flowers on long pedicels, flowers yellow, irregular in size, 1-2,5 cm wide.	FNA (178) Woodlands, forest edges, sandy fields; MVP (841) dry open woods, April-July; Fne (330) Fields and open woods May-July :
Smooth forked Whitlow-wort	*Paronychia canadensis*	*Caryophyllaceae*	E									ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO	ΔO					FNA (515) Stipules 0.5 - 3mm long, calyx 1-3mm long, the lobe terminated by an inconspicuous apiculus, mature fruit noticeably exceeding the calyx; MVP (122) Glabrous annual with slender , erect , forking stems and almost capillary branches.	FNA (515) Woodlands, rocky forests, balds, trail edges; MVP (122) Sandy soil and open places June - September; FNe (483) Dry rocky, sandy, or rich deciduous woods and Openings June - September:
Eight –flowered six weeks grass	*Vulpia octoflora var. tenella (FNA 288)*	*Poaceae*	E									O	O	O	O	O	O	O	O													FNA (288) Spikelets 4-5.5 mm long, awn of lowest lemma 2.5-6 (-9) mm long	MGNA (105) Grasslands, sagebrush, and open woodlands, as well as disturbed habitats and areas of secondary succession, such as old fields, roadsides, and ditches; FNA (288) Sandy roadsides, edges of parking lots, aand fields, open ledges; MVP Dry sterile soil; FNe (174) Dry sandy soil June-July):
Field Survey Window												FS		FS		FS																

Flowering	
FS	Field Survey Window (2 man days / field survey window)

FNA	Haines, Arthur, Elizabeth Farnsworth, and Gordon Morrison. 2011. New England Wildflower Society's flora Novae Angliae: a manual for the identification of native and naturalized higher vascular plants of New England. [Framingham, Mass.]: New England Wild Flower Society.
FNe	Magee, Dennis W., and Harry E. Ahles. 2007. *Flora of the Northeast: a manual of the vascular flora of New England and adjacent New York* . Amherst: University of Massachusetts Press.
MGNA	*Mary E. Barkworth, Laurel K. Anderton, Kathleen M. Capels, Sandy Long, and Michael B. Piep (eds.). 2007. Manual of Grasses for North America, Utah State University Pres*
MVP	Gleason, Henry A. and Arthur Cronquist. 1991. Manual of vascular Plants of Northeastern United States and Adjacent Canada. Second Edition. The New York Botanical Garden.

Phenology Key

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Δ

Trefry, Sherrie

From: Oakley, Darrell
Sent: Wednesday, May 27, 2015 2:51 PM
To: Trefry, Sherrie
Cc: Bergeron, Marc
Subject: Fwd: MVRP Plant Survey Protocol
Attachments: image001.png

Follow Up Flag: Follow up
Flag Status: Flagged

Here's the NHB survey approval.

Sent from my iPhone

Begin forwarded message:

> **From:** "Lamb, Amy" <Amy.Lamb@dred.nh.gov>
> **Date:** May 27, 2015 at 12:31:44 PM EDT
> **To:** "Oakley, Darrell" <DOakley@VHB.com>
> **Cc:** "Coppola, Melissa" <Melissa.Coppola@dred.nh.gov>
> **Subject: RE: MVRP Plant Survey Protocol**
>
> Hi Darrell,
>
> Thanks for your reply. To address your comments:
>
> NHB is not suggesting that surveys be conducted over the entire 20 miles of right of way. We only recommend that additional areas of suitable habitat (as described in the table of the plant survey protocol document).
>
> Thank you for addressing my questions. I have no further questions about the approach and survey protocol. I look forward to seeing the results of the plant survey.
>
> Amy
>
> Amy Lamb
> Ecological Information Specialist
> (603) 271-2215 ext. 323
>
> NH Natural Heritage Bureau
> DRED - Forests & Lands
> 172 Pembroke Rd
> Concord, NH 03301
>
> ---
>
> **From:** Oakley, Darrell [mailto:DOakley@VHB.com]
> **Sent:** Tuesday, May 26, 2015 10:36 AM
> **To:** Lamb, Amy

Cc: Coppola, Melissa; Laura V. Games/NUS; Holden, Joshua B.; Bergeron, Marc; Trefry, Sherrie
Subject: RE: MVRP Plant Survey Protocol

Amy,

Thank you for your comments. Please see the responses in orange below. If you are ok with the approach and survey protocol, please respond. We are trying to finalize MVRP's SEC application this week and need to include correspondence and approvals from Natural Heritage Bureau and Fish and Game Department.

Regards,
Darrell

From: Lamb, Amy [mailto:Amy.Lamb@dred.nh.gov]
Sent: Thursday, May 21, 2015 10:33 AM
To: Oakley, Darrell
Cc: Coppola, Melissa
Subject: RE: MVRP Plant Survey Protocol

Hello Darrell,

I apologize for taking so long to get back to you. I wanted to ask a few questions about the rare plant survey plan and the boring plan.

In the survey plan, I was wondering why the survey stakes would be removed after flagging the locations of rare plants. It seems that leaving the flags would assist in protecting the populations. Also, your current plan only includes looking for known occurrences of rare plants, but we suggest that you also survey in areas with suitable habitat, if possible.

Permanent stakes would cause unwanted attraction to rare plant areas. State agencies typically do not want us to advertise where rare plants occur since unscrupulous collectors have been known to damage remaining plant locations. During construction and if needed geotech borings, rare plants areas would be protected with a barrier and suitable buffer. In regards to extending the survey area beyond the general vicinity of known rare plant locations, National Grid and Eversource will not offer rare plant surveys over 20 miles of right of way unless required by Natural Heritage Bureau.

In the boring plan, it states that boring locations (and the associated 25'x25' geoboring work pad) will be flexible and can be moved to avoid rare plants. If plants cannot be completely avoided, we request that the impacted areas be mitigated.

Because the boring locations can be flexible, we do not anticipate the need for mitigation at this time; however, if needed National Grid and Eversource would develop a mitigation plan with the Natural Heritage Bureau.

During the construction phase, 100'x100' construction work pad areas are included around the proposed structure. Can these areas also be resized/modified/relocated if they are in the vicinity of a rare plant? Again, if rare plants are found, please show that you have worked to minimize impacts to rare plants, including relocating construction work pads and, if possible, leaving buffers around the rare plants.

Once rare plants are mapped, project engineers will assess whether construction work pad areas can be modified to avoid or minimize impacts. National Grid and Eversource are committed to minimizing impacts to rare plants to the greatest extent practicable.

Thank you for the opportunity to comment.

Best,
Amy

Amy Lamb
Ecological Information Specialist
(603) 271-2215 ext. 323

NH Natural Heritage Bureau
DRED - Forests & Lands
172 Pembroke Rd
Concord, NH 03301

Darrell Oakley
Senior Ecologist

P 508.513.2723
www.vhb.com

From: Lamb, Amy [mailto:Amy.Lamb@dred.nh.gov]
Sent: Thursday, May 21, 2015 10:33 AM
To: Oakley, Darrell
Cc: Coppola, Melissa
Subject: RE: MVRP Plant Survey Protocol

Hello Darrell,

I apologize for taking so long to get back to you. I wanted to ask a few questions about the rare plant survey plan and the boring plan.

In the survey plan, I was wondering why the survey stakes would be removed after flagging the locations of rare plants. It seems that leaving the flags would assist in protecting the populations. Also, your current plan only includes looking for known occurrences of rare plants, but we suggest that you also survey in areas with suitable habitat, if possible.

In the boring plan, it states that boring locations (and the associated 25'x25' geoboring work pad) will be flexible and can be moved to avoid rare plants. If plants cannot be completely avoided, we request that the impacted areas be mitigated.

During the construction phase, 100'x100' construction work pad areas are included around the proposed structure. Can these areas also be resized/modified/relocated if they are in the vicinity of a rare plant? Again, if rare plants are found, please show that you have worked to minimize impacts to rare plants, including relocating construction work pads and, if possible, leaving buffers around the rare plants.

Thank you for the opportunity to comment.

Best,
Amy

Amy Lamb
Ecological Information Specialist
(603) 271-2215 ext. 323

NH Natural Heritage Bureau
DRED - Forests & Lands

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Concord, NH 03301

From: Oakley, Darrell [mailto:DOakley@VHB.com]
Sent: Friday, May 08, 2015 11:12 AM
To: Coppola, Melissa; Lamb, Amy
Cc: Bergeron, Marc; Trefry, Sherrie; Laura V. Games/NUS; Holden, Joshua B.
Subject: RE: MVRP Plant Survey Protocol

Melissa and Amy,

I've updated the protocol to include avoidance and minimization. Please review and approve the survey plan.

Regards,
Darrell

Darrell Oakley
Senior Ecologist

P 508.513.2723
www.vhb.com

From: Coppola, Melissa [mailto:Melissa.Coppola@dred.nh.gov]
Sent: Friday, May 01, 2015 2:09 PM
To: Oakley, Darrell
Cc: Bergeron, Marc; Trefry, Sherrie; Laura V. Games/NUS; Holden, Joshua B.; Lamb, Amy
Subject: RE: MVRP Plant Survey Protocol

This looks good, except it is missing one detail: how impacts will be avoided or minimized once the plants are located.

This detail should be included in the protocol and could be as simple as leaving the flags out, or putting them back out once the project is moving forward so that the sensitive areas can be avoided.

FYI. Amy Lamb started today in my old full-time positon. I'm cc-ing her on this email so that you have her contact information. I will still be working part-time for a bit longer to help with the transition.

Best,
Melissa

From: Oakley, Darrell [mailto:DOakley@VHB.com] i
Sent: Tuesday, April 21, 2015 2:44 AM
To: Coppola, Melissa
Cc: Bergeron, Marc; Trefry, Sherrie; Laura V. Games/NUS; Holden, Joshua B.
Subject: MVRP Plant Survey Protocol

Melissa,

Attached is a survey protocol and mapping for the Merrimack Valley Reliability Project. Please review and provide any comments.

NHF&G Correspondence

Memorandum

To: Michael Marchand
New Hampshire Fish & Game

Date: June 2, 2015

Project #: 126500

From: Darrell Oakley

MVRP Rare Species Field Protocols and Construction Avoidance

Rare species field protocols for the MVRP were developed over a series of meetings and correspondence with the New Hampshire Fish and Game and the New Hampshire Natural Heritage Bureau. An information request for MVRP project review was sent to the Natural Heritage Bureau on December 12, 2014. Response for project review was released on December 17, 2014. Dale Abbot of VHB entered into a Data Sharing Agreement for NH Heritage Bureau Environmental Review Data on January 8, 2015 in order to plot known occurrences of rare, threatened, and endangered species on project plans. The applicants and consultants had a pre application meeting with the SEC on January 22, 2015 where representatives from the New Hampshire Fish and Game and the Natural Heritage Bureau were present. Ms. Sherrie Trefry of VHB corresponded with the Natural Heritage Bureau regarding rare plant surveys. Rare plant survey protocols are covered in separate correspondence with the Natural Heritage Bureau.

National Grid, Eversource and VHB met with New Hampshire Fish and Game on February 17, 2015 to discuss the results of the mapped rare species along the project ROW and potential surveys. Laura Games of Eversource, Joshua Holden of National Grid, and I had an additional meeting with New Hampshire Fish and Game on March 26, 2015 to further develop surveys and discuss avoidance techniques. We have had follow-up emails and telephone calls with New Hampshire Fish and Game and Natural Heritage Bureau to facilitate survey plans.

Boring plans regarding rare species were sent to the Fish and Game on May 8 with map revisions on May 19, 2015. Boring plans were sent to the Natural Heritage Bureau on April 20 with revisions on May 8 and May 22. Final approval on rare plant surveys and avoidance are still being negotiated with Natural Heritage Bureau and New Hampshire Fish and Game.

I discussed the project with Ms. Susi vonOettingen of US Fish and Wildlife Service on February 10, 2015. The topic concerned surveys with the expected listing of the northern long-eared bat. The applicants filed a review with the US Fish and Wildlife Service Information, Planning, and Conservation System web site on March 3, 2015. The review resulted in no listed threatened or endangered species or critical habitats. The northern long-eared bat (*Myotis septranlis*) became listed as threatened on April 4, 2015. I discussed the applicability of the 4(d) rule for transmission line projects with Maria Tur and Susi vonOettingen on May 5 and May 6, 2015. The IPaC system was updated in May and I updated the IPaC report on May 15, 2015. Once again, the report resulted in no listed species or critical habitats near the project area. Because the northern long-eared bat is listed as occurring statewide in New Hampshire, National Grid and Eversource will continue to coordinate with the US Fish and Wildlife Service.

Survey Protocols Developed Through Consultation with New Hampshire Fish and Game

Black Racer-National Grid ROW Sheet 39 and Eversource ROW Sheet 103

The following protocol has been accepted by New Hampshire Fish and Game and a Collector permit was issued on April 15, 2015.

Currently, the black racer (*Coluber constrictor*) is locally sparse through southeast New Hampshire (NHF&G 2015). Black racers occur across a broad range of habitat types, including deciduous and coniferous forests, fields,

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woodlands, swamps, and marshes, although the preferred habitat in southern New Hampshire are dry, brushy pastures, power line corridors, rocky ledges, and woodlands (NHF&G 2015).

Favored black racer nesting sites include mammal burrows, rotting logs and stumps, and sawdust piles. Most frequently, females will seek out small mammal burrows in which to deposit their eggs. The mammal burrows typically are found in old fields and meadows, especially near stonewalls, abandoned buildings and brush piles. Females also will deposit their eggs in depressions under logs or stones, or within leaf litter. After an incubation period of 43-65 days, temperature dependent hatching will occur in late July to September. Winter hibernation sites include mammal burrows, caves, rock crevices, and gravel banks, in addition to rotting logs and stumps. Winter hibernation sites on transmission lines may include rock crevices near tower foundations (Marchand pers. comm. February 17, 2015).

The size of the home ranges of the black racer can vary greatly, owing to the size or productivity of the habitat. Low productivity habitats could consist of small, fragmented (developed) areas that would support large home ranges while large, unfragmented habitats would support smaller home ranges. Cited home ranges average 30 acres for Maine populations (MDIFW 2003), although home ranges as small as seven acres and in some instances, 0.2 acres, have also been cited (Tyning 1990). Furthermore, snakes may be predisposed to long distance migratory movements between potentially disjunct winter hibernacula and summer nesting and foraging habitats, complicating conservation efforts within fragmented habitats.

Survey Objective

The survey objective is to locate black racers near a known location on the Merrimack Valley Reliability Project (MVRP) right of way in Pelham, New Hampshire. If black racers are caught and appropriately sized, racers will be tagged with a radio transmitter for relocating with radio telemetry. With radio telemetry, it may be possible to locate black racer nesting locations in summer or hibernacula in fall. The goal in locating nesting areas and hibernacula is to avoid these important areas and prevent black racer take during construction of the MVRP.

Snake Handling and Relocation Procedures

Prior to initiating on-site surveys, a scientific collection permit will be acquired and a NHF&G contact person will be established for notification purposes. Tarpaper sections will be placed in sunny locations to attract snakes in the known black racer location in Pelham, MA. Biologists will conduct meander surveys using binoculars to aid in locating black racers. Snakes will be captured by hand or with the use of tongs. Racers will be temporarily held within a cloth bag and then transferred to a container. These temporary holding containers will be placed within a shaded area to prevent undue temperature stress. Snakes will be held onsite until the scheduled surveys has been completed for that day.

Captured snakes will be transported to Russell Animal Hospital in Concord, New Hampshire or Weare Animal Hospital in Weare, New Hampshire. If snakes are healthy and of the appropriate weight, a Holohill SI-2, 9 gram transmitter will be inserted into a snake. It is anticipated that the animal hospitals will be able to implant the transmitters and release can occur on the same day. If needed, snakes may stay at the hospital overnight to recover prior to release. The release location will be at the capture site.

All survey data and detailed field notes will be collected and recorded on project-specific data sheets and a photograph record will be kept. Global positioning system data of snake locations and sightings will also be collected.

Snakes are anticipated to be tagged in mid- to late April post emergence and pre-dispersal. Snakes would be monitored at least two times a week until snakes disperse in late April or May. This period will likely last one to three weeks.

Following dispersal, snakes will be monitored every other week until June. If females were caught, females would be tracked twice a week in June to determine egg laying locations. If only males are tagged, then the males would be tracked every other week in June. In July and August, tagged racers would be monitored every other week. In September, monitoring will increase to twice a week to help locate hibernacula. At the end of the survey and if females are tagged, we will attempt to relocate and remove the tag at Russell Animal Hospital. If no snakes are located and tagged in spring 2015, then another survey effort will occur in spring 2016.

Reporting

The Applicants will document field survey efforts and report to the New Hampshire Fish and Game by January 31, 2016. The report will include the following items as required by the Scientific Collection Permit.

(1) The name and address to which the scientific permit was issued

(2) The purpose and objective of the study

(3) Species and number wildlife taken

(4) Age and sex, if known, of wildlife taken

(5) Location(s) where species were taken or collected, including a map for those wildlife species tracked under this license

(6) Date received or collected

(7) Disposition of the wildlife

(8) Location where specimens are held, if applicable

Construction-related Avoidance and Minimization Measures for Black Racer

- Additional pre-construction surveys in 2016 (potentially using transmitters and radio tracking)
- Observers during construction in documented black racer area
- Contractor education and brochures
- Avoidance of hibernaculas if located

Blanding's Turtle–National Grid ROW Sheet 66 and Eversource ROW Sheets 85–88
Spotted Turtle-Eversource ROW Sheets 81–83 and 102

Blanding's (NH-endangered) and spotted turtles (NH-threatened) are known to occur along the northern portion of the ROW. Blanding's generally hibernate in vegetated wetlands, whereas spotted turtles hibernate in the mud of shallow or in muskrat burrows or lodges (Ernst et al. 1994). Female Blanding's and spotted turtles seek terrestrial habitats to nest, typically in open sandy areas.

Based on discussions with New Hampshire Fish and Game, the primary area of concern for turtles is on Sheets 81-83. In this area there appears to be suitable nesting habitat adjacent to streams and wetlands. In addition, there is a pull site proposed on Sheet 102, which raises some concerns due to its location within a wetland documented for spotted turtle. This pull site has been moved to eliminate direct impacts to this wetland.

Survey Objective

Survey for suitable nesting areas and active nesting on Sheets 81-83. Blanding's turtle surveys should take place in the evening after 18:00 between May 25 and July 1, and earlier or later based on reports of nesting Blanding's turtle observations. Spotted turtles have a similar timeframe for nesting surveys, but may nest earlier in May, depending on seasonal conditions. We are planning three field days with two field scientists for this effort.

Construction-Related Avoidance and Minimization Measures for Blanding's Turtle and Spotted Turtle

- Additional pre-construction surveys (similar to current recommended approach)
- Observers during construction in documented turtle areas
- Contractor education and brochures
- Sweeping construction areas and then installing turtle barriers (silt fencing) in the project footprint near turtle habitat may be prudent during upland construction. This technique may not be applicable in all areas and will be dependent on nesting areas in relation to work areas.

New England Cottontail—Eversource ROW Sheets 90–95; 97

New England cottontail (*Sylvilagus transitionalis*) is listed as endangered in NH and is a candidate species for federal listing. New England cottontails inhabit dense shrubs, which generally are found in old fields, regenerating clear cuts, shrub-dominated wetlands, power lines, or other areas with thicket vegetation. New England cottontails are not known to occur along the MVRP ROW. NH Fish and Game has requested surveys that would be concentrated within the ROW between Mammoth Road and Interstate 93. Prior to field investigation, VHB in coordination with New Hampshire Fish and Game will perform a desktop review of suitable habitat between Mammoth Road and Interstate 93.

Survey Objective

Field surveys will be conducted in accordance with the USFWS New England Cottontail Tracking Field Protocol. Appropriate habitat will be searched by systematically meandering through thickets to cover most of the target area. At least 20% of suitable habitat patches will be surveyed. Suitable habitat will include areas consisting of dense vegetative cover and especially directed toward favored browse species (e.g. blackberry, raspberry, dewberry, blueberry, willows, aspen, maples, viburnums).

Surveys will be conducted during the day, when there is fresh snow on the ground. Searches will occur at least 36 hours, but preferably no more than four days, after the most recent snowfall to maximize accumulation of fresh tracks and fecal pellets. Also, if there have been high winds (>25 mph), rabbit sign may be obscured. An additional 36 hours with low winds will elapse prior to conducting surveys again. Reliable occupancy determination with 95% confidence of detection has been demonstrated with 2-3 surveys conducted with snowpack <12 inches and two to four days after a snowfall without high winds (Brubaker et al. 2014). At least four surveys would be required by NH Fish and Game in appropriate habitat patches in early winter 2015/2016 when conditions are appropriate. We are estimating eight field days with two field scientists to cover the potential New England Cottontail areas between Mammoth Road and Interstate 93.

Cottontail tracks will be photographed with a scale ruler. Cottontail fecal pellets will be located with GPS and samples collected with latex gloves. They will be placed into sterile vials and stored in a cooler with snow or ice to keep samples frozen until they can be placed in a freezer or delivered to a laboratory. Fecal samples will be delivered to the University of New Hampshire Molecular Ecology lab for DNA analysis. A report will be generated using the collected data and sent to the project team for review prior to submission to the SEC and USFWS. Conducting surveys would be used to demonstrate that the applicant has taken the appropriate measures to identify endangered wildlife species within the project area.

Construction-related Avoidance and Minimization Measures for New England Cottontail

- None required—assume surveys would show project will have no adverse effect on this species.
- Maintenance of ROW will be done in consultation with NHF&G to benefit cottontail habitat.

References:

Brubaker, D. R. Kovach, A. I. Ducey, M. J. Jakubas, W. J. and K.M. O'brien. 2014. Factors influencing detection in occupancy surveys of a threatened lagomorph. Wildlife Society Bulletin, Vol. 28, Issue 3, pages 513-523.

Ernst, C.H., J.E. Lovich, and R.W. Barbour. 1994. Turtles of the United States and Canada. Smithsonian Inst. Press, Washington, D.C. 578 pp.

Maine Department of Inland Fisheries & Wildlife (MDIFW) 2003. Black Racer (*Coluber constrictor*) - Maine's Endangered and Threatened Wildlife. 2003. https://www1.maine.gov/ifw/wildlife/endangered/pdfs/blackracer_82_83.pdf (accessed April 13, 2015).

New Hampshire Fish and Game (NHF&G) 2015.
http://www.wildlife.state.nh.us/Wildlife/Nongame/snakes/profile_black_racer.htm

Tyning, T.F. 1990. A Guide to Amphibian and Reptiles. Little, Brown, and Company.

USFWS. 2015. New England Cottontail Field Tracking Protocol.
http://www.fws.gov/gomcp/NEC/MNECWG_Surveys_Protocol.pdf

Trefry, Sherrie

From: Marchand, Michael <Michael.Marchand@wildlife.nh.gov>
Sent: Monday, June 08, 2015 11:51 AM
To: Oakley, Darrell
Cc: Laura V. Games/NUS; Holden, Joshua B.; Trefry, Sherrie; Bergeron, Marc
Subject: RE: MVRP Field Protocols

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Darrell,

The protocols are consistent with our discussions to date.

Mike

Michael Marchand
Certified Wildlife Biologist
Nongame & Endangered Wildlife Program
NH Fish & Game Department
11 Hazen Drive
Concord NH 03301
Phone: 603-271-3016

Check out reptiles and amphibians of NH!!:
http://www.wildlife.state.nh.us/nongame/reptiles-amphibians.html

Report your sightings of reptiles and amphibians in 3 ways:
1) Email details of observation or completed form to RAARP@wildlife.nh.gov *or*
2) Enter your observation online at http://nhwildlifesightings.unh.edu.
3) Mail your reporting slip
http://www.wildlife.state.nh.us/nongame/documents/raarp-report-form.pdf

Northeast Partners of Amphibian and Reptile Conservation: http://www.northeastparc.org/

From: Oakley, Darrell [mailto:DOakley@VHB.com]
Sent: Tuesday, June 02, 2015 9:40 AM
To: Marchand, Michael
Cc: Laura V. Games/NUS; Holden, Joshua B.; Trefry, Sherrie; Bergeron, Marc
Subject: MVRP Field Protocols

Mike,

Attached please find the MVRP field protocols for your review. We would like to get your concurrence by email and put it into the SEC filing. Can you review it by the end of this week?

Thanks,
Darrell

Darrell Oakley
Senior Ecologist

USFWS Correspondence

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-0298 March 03, 2015
Event Code: 05E1NE00-2015-E-00481
Project Name: MVRP

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: MVRP

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-0298
Event Code: 05E1NE00-2015-E-00481

Project Type: Transmission Line

Project Name: MVRP
Project Description: Eversource and National Grid have teamed up to implement the construction of a new transmission line between Londonderry, New Hampshire, and Tewksbury, Massachusetts. The Merrimack Valley Reliability Project will consist of installing a new 345-kilovolt (kV) overhead line along 24.6 miles of an existing power line corridor that runs between Londonderry, New Hampshire, and Tewksbury, Massachusetts.

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

United States Department of Interior
Fish and Wildlife Service

Project name: MVRP

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-71.3766518 42.883135, -71.382035 42.8792434, -71.3829066 42.8790672, -71.3830279 42.8788685, -71.3828897 42.8782228, -71.3836339 42.8780957, -71.3841052 42.8784708, -71.3842194 42.878857, -71.4040665 42.8754502, -71.4186006 42.8503224, -71.4003344 42.8291391, -71.3779134 42.8097936, -71.3724214 42.8047253, -71.3727366 42.8040636, -71.3625184 42.794664, -71.3302196 42.7621377, -71.3205306 42.7499057, -71.3193263 42.7483423, -71.2982929 42.7218326, -71.2694535 42.6908572, -71.269317 42.69081, -71.2687184 42.6902346, -71.2688537 42.6902125, -71.2512896 42.6713313, -71.2513039 42.6714914, -71.2505321 42.6707659, -71.2507015 42.6706989, -71.2405235 42.6613199, -71.2390246 42.6513907, -71.2388438 42.6514322, -71.2384731 42.6489757, -71.2380621 42.648783, -71.237225 42.6431831, -71.2371136 42.6432484, -71.2372107 42.6428616, -71.2373387 42.6428622, -71.2390279 42.6385163, -71.2390713 42.638495, -71.2392365 42.6380794, -71.239617 42.6379009, -71.2410049 42.6343293, -71.2408795 42.6344033, -71.2415365 42.6327125, -71.2419268 42.6317083, -71.2419921 42.6317889, -71.2441129 42.6263317, -71.2414732 42.6232929, -71.2415801

42.6227708, -71.2421917 42.622268, -71.2434216 42.6225221, -71.2424261 42.6232877, -71.2423551 42.6234357, -71.2424163 42.6235524, -71.2442816 42.6258857, -71.244453 42.6254547, -71.2443846 42.625106, -71.2451383 42.6239126, -71.2454302 42.6223057, -71.2475923 42.6225519, -71.2485943 42.6235757, -71.2484907 42.6243092, -71.2468333 42.6252842, -71.2462362 42.6258396, -71.241676 42.6375768, -71.2412362 42.6378083, -71.2391092 42.6432813, -71.2400428 42.6494644, -71.2405491 42.6497211, -71.2418693 42.6584658, -71.2431354 42.6615338, -71.2462394 42.6643583, -71.2525158 42.6699827, -71.2534066 42.6709407, -71.2530126 42.6714869, -71.2994011 42.7213287, -71.3313003 42.7616239, -71.3635422 42.7940836, -71.3668586 42.7971335, -71.3670131 42.7970495, -71.3672468 42.7972644, -71.3732461 42.802994, -71.379542 42.8088042, -71.4020376 42.8282136, -71.4026833 42.8289264, -71.4038774 42.830348, -71.4202849 42.8493744, -71.4201004 42.8509526, -71.4049879 42.877081, -71.3832083 42.8808161, -71.3828494 42.8810761, -71.3828785 42.8808628, -71.3827046 42.8808927, -71.3827032 42.8808187, -71.3555599 42.900433, -71.34707 42.9018984, -71.3463895 42.9020592, -71.3453083 42.9041445, -71.3443003 42.9048407, -71.3416664 42.9059313, -71.3413824 42.9057916, -71.3407635 42.9048343, -71.3402814 42.9042371, -71.3397983 42.903837, -71.3386657 42.9018342, -71.3399849 42.901662, -71.345587 42.9006465, -71.3545593 42.8990979, -71.3766518 42.883135)))

Project Counties: Essex, MA | Middlesex, MA | Hillsborough, NH | Rockingham, NH

Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Attachment E

Cultural Resource Agency Correspondence

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
NOV 27 2012

DHR Use Only	
R&C #	4356
Log In Date	11 / 27 / 12
Response Date	11 / 28 / 12
Sent Date	11 / 28 / 12

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title PSNH 326 Transmission Line Uprate Project

Project Location Scobie Pond Substation to NH/MA state line

City/Town Londonderry, Pelham, Hudson Tax Map Multiple Lot # Multiple

NH State Plane - Feet Geographic Coordinates: Easting Northing
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact *(if applicable)* ACOE
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference # PGP expected

State Agency and Contact *(if applicable)* NH DES - Frank Richardson

Permit Type and Permit or Job Reference # Standard - Major

APPLICANT INFORMATION

Applicant Name PSNH - c/o Laura Games

Mailing Address PSNH Energy Park 780 North Commercial St Phone Number 603 634-2906

City Manchester State NH Zip 03101 Email Laura.Games@nu.com

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Lee Carbonneau/Normandeau Associates, Inc.

Mailing Address 25 Nashua Road Phone Number -6036371150

City Bedford State NH Zip 03110 Email lcarbonneau@normandeau.com

Thank You

This form is updated periodically. Please download the current form at http://www.nh.gov/ DHR/review. *Please refer to the Request for Project Review Instructions for direction on completing this form.* Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: http://www.nh.gov/ DHR/review or contact the R&C Specialist at christina.st.louis@dcr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- ☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) ***indicating the defined project boundary.*** *(See RPR Instructions and R&C FAQs for guidance.)*
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☒ A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1** or within project narrative description. *(Blank table forms are available on the DHR website.)* File review conducted on 10/14/2011.

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☐ Yes ☒ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- ☐ Photographs of ***each*** resource or streetscape located within the project area, with captions, along with a photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☐ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☑ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments: _____

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Richard A Boisvert 11-28-12 Date: _____

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED
MAR 04 2015

DHR Use Only	
R&C #	6519
Log In Date	___/___/___
Response Date	___/___/___
Sent Date	___/___/___

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal
☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title Merrimack Valley Reliability Project ("MVRP")

Project Location Existing Overhead Utility Right of Way (ROW)

City/Town Pelham, Windham, Hudson and Londonderry Tax Map N/A Lot # N/A

NH State Plane - Feet Geographic Coordinates: Easting ~~587173~~ 1050685 Northing ~~146605~~ 127803
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact *(if applicable)* Army Corps of Engineers, David Keddell
(Agency providing funds, licenses, or permits)
Permit Type and Permit or Job Reference # Section 404 Permit

State Agency and Contact *(if applicable)* NH DES

Permit Type and Permit or Job Reference # Various permits

APPLICANT INFORMATION

Applicant Name PSNH d/b/a Eversource and New England Power d/b/a National Grid

Mailing Address 13 Legends Drive, Hooksett, NH and 40 Slyvan Road, Waltham, MA Phone Number

City Hooksett, NH and Waltham, MA State Zip Email

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company Laura Games, Eversource

Mailing Address 13 Legends Drive Phone Number 603-634-2906

City Hooksett State NH Zip 03106 Email laura.games@eversource.com

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. *Please refer to the Request for Project Review Instructions for direction on completing this form.* Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at christina.st.louis@dcr.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- ☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) ***indicating the defined project boundary.*** *(See RPR Instructions and R&C FAQs for guidance.)*
- ☒ Attach a detailed narrative description of the proposed project.
- ☐ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- ☒ A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1**. *(Blank table forms are available on the DHR website.)* File review conducted on March/2014/ .

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☒ Yes ☐ No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s): ca 1870

- ☒ Photographs of ***each*** resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☐ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No
If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

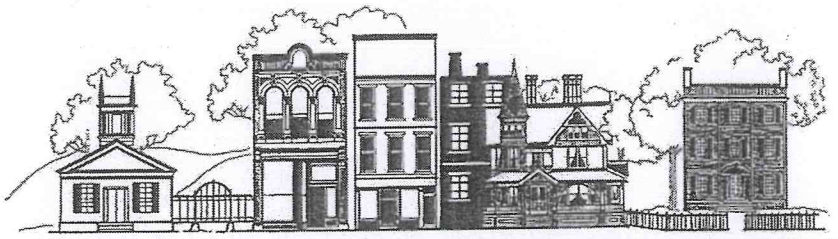
☐ Insufficient information to initiate review. ☑ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☐ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments: Not all of the line has been surveyed & there are areas that run parallel to the existing line that have not been surveyed and appear archaeologically sensitive. There have been sites identified previously along some sections of this line. An informed comment cannot be made at this time until surveys have been completed.

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Edna Feighner Date: 3/10/15



NEW HAMPSHIRE DIVISION OF HISTORICAL RESOURCES

State of New Hampshire, Department of Cultural Resources
19 Pillsbury Street, Concord, NH 03301-3570
TDD Access Relay NH 1-800-735-2964
www.nh.gov/nhdhr

603-271-3483
603-271-3558
FAX 603-271-3433
preservation@dcr.nh.gov

June 2, 2015

Frank Delguidice
Regulatory Branch
NH Division of Corps of Engineers
Department of the Army
696 Virginia Road
Concord, MH 01742-2751

Re: Merrimack Valley Reliability Project (MVRP or 3124 Line)
Londonderry to Pelham, NH (RPR 6519)

Dear Mr. Delguidice:

In accordance with the National Historic Preservation Act of 1966 (P.L. 89-655), as amended, and as implemented by regulations of the Federal Advisory Council on Historic Preservation ("36 CFR Part 800: Protection of Historic Properties"), the New Hampshire Division of Historical Resources/State Historic Preservation Office (DHR) has reviewed the Due-Diligence report for above-ground resources associated with the undertaking referenced above to identify potential effects to historic resources listed, or eligible for listing, in the National Register of Historic Places. The DHR concurs that there is no potential to affect above-ground historic properties within Segments 2, 3, and 4 and that no additional above-ground studies are required.

Sincerely,

Elizabeth H. Muzzey
Director and State Historic Preservation Officer

EMF:nmp

cc: John Eddins, ACHP
Laura Games, Eversource
Stephen Olausen, PAL, Inc.
Josh Holden, National Grid

Attachment F

Abutter/Town Tax Maps

Pelham Tax Maps

Owner/Abutter List (Pelham, New Hampshire)

All of the project work will occur within an existing utility right-of-way, thus abutters do not need to be notified. Below is a list of all properties within and directly adjacent to the project right-of-way. Notifications were sent to the property owners listed below. Properties located outside of the right-of-way are *italicized*.

Owner/Abutter	Tax Map Number (map/map cut-block/block cut)	Mailing Address
	Tax Map 3	
The Fox Family	3/5-169/16	34 Dogwood Circle Pelham, NH 03076
Curtis Bonnell	3/5-169/17	24 Dogwood Circle Pelham, NH 03076
The Ham Family	3/5-169/18	18 Dogwood Circle Pelham, NH 03076
John Forsythe	3/5-169/19	89 Overlook Circle Hudson, NH 03051
The Regan Family	*3/5-173/5*	*6 Shelly Drive* *Pelham, NH 03076*
Philip McAdam & Theresa Hill	*3/5-173/6*	*5 Shelly Drive* *Pelham, NH 03076*
James & Alyson Gendreau	3/5-173/7	8 Shelly Drive Pelham, NH 03076
Philip & Suzette McColgan	3/5-173/8	7 Shelly Drive Pelham, NH 03076
Cindy Ringer	3/5-173/9	10 Shelly Drive Pelham, NH 03076
The Hedglin Family	3/5-173/10	12 Shelly Drive Pelham, NH 03076
The Altieri Family	3/5-175	46 Tallant Road Pelham, NH 03076
Gary & Linda Mendes	3/5-176	44 Tallant Road Pelham, NH 03076-2234
Black Grape LLC	3/5-177A	PO Box 1030 Londonderry, NH 03053
Black Grape LLC	3/5-177B	PO Box 1030 Londonderry, NH 03053
Jason & Katherine Dionne	3/5-178	40 Tallant Road Pelham, NH 03076-2234

Salvatore & Glynnis Perruccio	3/5-179	36-38 Tallant Road Pelham, NH 03076-2233
Salvatore & Glynnis Perruccio	3/5-179/1	36-38 Tallant Road Pelham, NH 03076-2233
Jessica Theriault and Pamela Hayward	3/5-180A	32 Tallant Road Pelham, NH 03076-2233
The Polcari Family	3/5-180B	34 Tallant Road Pelham, NH 03076-2233
Tax Map 4		
Priscilla C. Currier Revocable Trust	4-9-137	PO Box 306 Pelham, NH 03076
Tax Map 7		
Christopher Laffey	7/5-180/1	28-30 Tallant Road Pelham, NH 03076
Angela Zouvelos Trust	7/5-181	26 Tallant Road Pelham, NH 03076
Carol Ann Mccarthy and Scott A. Ardizzoni	7/5-182	24 Tallant Road Pelham, NH 03076-2233
David A. Mendes	7/9-94	54 Jericho Road Pelham, NH 03076
David A. Mendes	7/9-135	54 Jericho Road Pelham, NH 03076
David A. Mendes	7/9-135/1	54 Jericho Road Pelham, NH 03076
David A. Mendes	7/9-135/2	54 Jericho Road Pelham, NH 03076
David A. Mendes	7/9-135/5	54 Jericho Road Pelham, NH 03076
The Wilson Family	*7/9-96/11*	*3 Carriage Circle* *Pelham, NH 03076*
Tax Map 8		
David A. Mendes	8/9-135/3	54 Jericho Road Pelham, NH 03076
Langan Family Nominee Trust	8/9-95	19 Hayden Road Pelham, NH 03076
Hayden Road Condominium	8/9-96/1A	13 Hayden Road Pelham, NH 03076

Hayden Road Condominium	8/9-96/1B	15 Hayden Road Pelham, NH 03076
The Burne Family	*8/9-96/9*	*6 Carriage Circle* *Pelham, NH 03076*
Shawn Buckley	8/9-96/10	9 Carriage Circle Pelham, NH 03076-2243
Kerry Johnson	8/9-97	11 Hayden Road Pelham, NH 03076
Eugene & Dorothy Carter	8/9-98	15 Katie Lane Pelham, NH 03076-2244

Tax Map 15

Brookwood Realty Group, LLC	15/8-86	PO Box 725 Pelham, NH 03076
Adele & Robert Lichtenberg	15/8-208	9 Kestral Lane Hudson, NH 03051
Brookwood Realty Group, LLC	*15/8-208/1*	*PO Box 725* *Pelham, NH 03076*
Adele & Robert Lichtenberg	15/8-208/3	9 Kestral Lane Hudson, NH 03051
Town of Pelham	15/8-209	6 Village Green Pelham, NH 03076
Town of Pelham	15/8-210	6 Village Green Pelham, NH 03076
Town of Pelham	15/8-212	6 Village Green Pelham, NH 03076
Matthew Holter	15/8-213	208 A Windham Road Pelham, NH 03076
Andrew & Linda Vanti and Dennis Tedder	15/8-214/1	216 A Windham Road Pelham, NH 03076
The Batcheller Family	15/8-215	217 Windham Road Pelham, NH 03076
Edward W. Magiera, Jr.	15/8-216	3 Eugenie Terrace Chelmsford, MA 01824
Johnathan & Roseann Cares	15/8-217/1	228 Windham Road Pelham, NH 03076
Francis & Lise Fortier	15/8-217/3	5 Lemere Drive Pelham, NH 03076-2241
Mark & Debra Getty	15/8-217/5	7 Lemere Drive Pelham, NH 03076-2241

The Mucci Family	15/8-217/7	17 Twin Street Pelham, NH 03076
Christine M. McCarron	15/8-222	265 Windham Road Pelham, NH 03076
Richard Donnelly	*15/8-223*	*285 Windham Road* *Pelham, NH 03076*

Tax Map 22

Carolyn L. Law Irrevocable Trust	22/7-1	PO Box 46 Pelham, NH 03076
Town of Pelham	22/7-1/1	6 Village Green Pelham, NH 03076
The Picard Family	*22/7-3/1*	*9 Old Lawrence Road* *Pelham, NH 03076-3721*
Donald H. & Diane M. Brunelle	*22/7-3/2*	*11 Old Lawrence Road* *Pelham, NH 03076-3721*
Jonathan Law	*22/7-3/3*	*7 Old Lawrence Road* *Pelham, NH 03076*
Patrick & Diane Fournier	*22/8-20/2*	*12 Heather Lee Lane* *Pelham, NH 03076-3742*
Eric & Pamela Frank	*22/8-20/3*	*18 Heather Lee Lane* *Pelham, NH 03076-3742*
Steven & Lindsey Sargent	*22/8-20/4*	*36 Heather Lee Lane* *Pelham, NH 03076*
Michael & Megan Larson	*22/8-20/5*	*42 Heather Lee Lane* *Pelham, NH 03076-3742*
Michael & Cheryl Benson	*22/8-20/6*	*48 Heather Lee Lane* *Pelham, NH 03076-3742*
Gregory & Michelle Paquin	*22/8-20/7*	*56 Heather Lee Lane* *Pelham, NH 03076-3742*
New England Power Co.	22/8-21	Property Tax Dept. 40 Sylvan Road Waltham, MA 02451
Gina McManus	*22/8-22/5*	*37 Gaudet Lane* *Pelham, NH 03076*
Mateus & Islida Martins	*22/8-22/6*	*27 Gaudet Lane* *Pelham, NH 03076*
Panagiotis Ravaris	*22/8-22/8*	*11 Gaudet Lane* *Pelham, NH 03076*
Town of Pelham	22/8-22/9	6 Village Green Pelham, NH 03076

The Slattery Family	*22/8-23*	*172 Main Street* *Pelham, NH 03076*
Patrick & Kim Gendron Family Trust	22/8-85	579 Bridge Street Pelham, NH 03076-5709
Brookwood Realty Group LLC	22/8-87	PO Box 725 Pelham, NH 03076
Brookwood Realty Group LLC	22/8-88	PO Box 725 Pelham, NH 03076
Brookwood Realty Group LLC	22/8-89	PO Box 725 Pelham, NH 03076
Susan Hurley and Phillip R. Giacoppo	*22/8-91*	*2 Rita Avenue* *Pelham, NH 03076-2720*
Mark A. & Doreen J. Crandall	*22/8-96*	*1 Linda Avenue* *Pelham, NH 03076-2719*
Jon & Melissa Rickards	*22/8-98*	*8 Tina Avenue* *Pelham, NH 03076-2725*
Richard & Kathleen Kres	22/8-99	9 Tina Avenue Pelham, NH 03076-2724
The Atwood Family	22/8-206	47 Jamesway Dr Litchfield, NH 03052
Tax Map 29		
Town of Pelham	29/7-3	6 Village Green Pelham, NH 03076
Old Lawrence Road, LLC	29/7-10	PO Box 43 Pelham, NH 03076
Rush Lorelei	29/7-10/1	25 Old Lawrence Road Pelham, NH 03076
Tax Map 30		
Town of Pelham	30/7-4	6 Village Green Pelham, NH 03076
New England Power Co.	30/7-11	Property Tax Dept. 40 Sylvan Road Waltham, MA 02451
Town of Pelham	30/7-12	6 Village Green Pelham, NH 03076
Julie Breck	30/10-362/1A	66A Dutton Road Pelham, NH 03076
Aline D. Brouillette	30/10-362/1B	29 Glen Drive Hudson, NH 03051

Alice Symonovit David Hennessey	30/11-100	71 Dutton Road Pelham, NH 03076-3561
Salvatore Seminara Claudette Bisson	30/11-101	65 Dutton Road Pelham, NH 03076-3560
The Tellier Family	30/11-102	17 Timber Lane Road Pelham, NH 03076

Tax Map 36

Town of Pelham	36/10-10	6 Village Green Pelham, NH 03076
DHB Homes, LLC	*36/10-10/17*	*25 Buttrick Rd. Bld. A Unit 1* *Londonderry, NH 03053*
DHB Homes, LLC	*36/10-10/18*	*25 Buttrick Rd. Bld. A Unit 1* *Londonderry, NH 03053*
DHB Homes, LLC	*36/10-10/19*	*25 Buttrick Rd. Bld. A Unit 1* *Londonderry, NH 03053*
Nigel & Kerrijo Sampson	*36/10-10/20*	*122 Frontier Drive* *Pelham, NH 03076-3580*
The Eno Family	*36/10-10/21*	*126 Frontier Drive* *Pelham, NH 03076*
Frederick Lane	36/10-12	23 Lantern Lane Unit 7 Dracut, MA 01826
Susan Richardson	36/10-13	170 Water Street Boscawen, NH 03303
Mawson Living Trust	36/10-14	17 So. Shore Drive Pelham, NH 03076
Town of Pelham	36/10-15	6 Village Green Pelham, NH 03076
Brian McGowan	36/10-16	PO Box 895 Dracut, MA 01826
Brian McGowan	3610-17	PO Box 895 Dracut, MA 01826
Mark & Dori Ducharme	*36/10-361/12*	*17 Deer Hill Circle* *Pelham, NH 03076-5503*
Kathryn Sorenson and Joseph F. Dehney	36/10-362	70 Dutton Road Pelham, NH 03076-3555
John Mansur	36/10-364	76 Dutton Road Pelham, NH 03076
John Mansur	*36/10-365*	*76 Dutton Road* *Pelham, NH 03076*

Desjardins Realty Trust	36/10-367	13 River Road Pelham, NH 03076
Michael & Sarah Comeau	36/10-368/3	8 Brandy Lane Pelham, NH 03076
Harry L. Betty Jr. Irrevocable Trust	36/10-368/5	10 Brandy Lane Pelham, NH 03076
Walter L. Nickerson Family Trust	36-10-368/7	12 Brandy Lane Pelham, NH 03076
The Diprizio Family	36/10-368/9	14 Brandy Lane Pelham, NH 03076-3566
Tax Map 42		
The Dalphond Family	42/10-8	81 Brigham Ave Pelham, NH 03076
New England Power Company	42/10-9	Property Tax Dept. 40 Sylvan Road Waltham, MA 02451
Town of Pelham	42/10-9	6 Village Green Pelham, NH 03076
Boulder Hills Condominium	42/10-18	31 Hillcrest Lane Pelham, NH 03076
Deborah Moylan	42/10-19	70 Foster Road Ashby, MA 01431

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Street and Apt. No.: 70 Foster Road
City, State, ZIP+4: Ashby, MA 01431

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Sent To: The Diprizio Family
Street and Apt. No.: 14 Brandy Lane
City, State, ZIP+4®: Pelham, NH 03076-3566

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: The Regan Family
Street and Apt. No.: 6 Shelly Drive
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: Curtis Bonnell
Street and Apt. No.: 24 Dogwood Circle
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: The Altieri Family
Street and Apt. No.: 46 Tallant Road
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: Philip & Suzette McColgan
Street and Apt. No.: 7 Shelly Drive
City, State, ZIP+4®: Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4®

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The Polcari Family
34 Tallant Road
Pelham, NH 03076-2233

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. No
City, State, ZIP+4

Postmark Here

Jason & Katherine Dionne
40 Tallant Road
Pelham, NH 03076-2234

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. No
City, State, ZIP+4

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The Wilson Family
3 Carriage Circle
Pelham, NH 03076

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. No
City, State, ZIP+4

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Angela Zouvelos Trust
26 Tallant Road
Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. N
City, State, ZIP+4

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Eugene & Dorothy Carter
15 Katie Lane
Pelham, NH 03076-2244

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Postage $ .44
Total Postage and $ 3.94
Sent To
Street and Apt. N
City, State, ZIP+4

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The Burne Family
6 Carriage Circle
Pelham, NH 03076

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Postage $ .49
Total Postage and Fees $ 3.94

Sent To: The Batcheller Family
Street and Apt. No.: 217 Windham Road
City, State, ZIP+4®: Pelham, NH 03076

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Postage $ .49
Total Postage a $ 3.94

Sent To: Town of Pelham
Street and Apt.: 6 Village Green
City, State, ZIP+: Pelham, NH 03076

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Postage $ .49
Total Postage and $ 3.94

Sent To: Christine M. McCarron
Street and Apt. No.: 265 Windham Road
City, State, ZIP+4®: Pelham, NH 03076

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Sent To: Francis & Lise Fortier
Street and Apt. No: 5 Lemere Drive
City, State, ZIP+4®: Pelham, NH 03076-2241

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and $ 3.94

Sent To: Patrick & Diane Fournier
Street and Apt. No: 12 Heather Lee Lane
City, State, ZIP+4®: Pelham, NH 03076-3742

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Postage $ .49
Total Postage $ 3.94

Sent To: The Picard Family
Street and Apt. No.: 9 Old Lawrence Road
City, State, ZIP+4®: Pelham, NH 03076-3721

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Michael & Megan Larson
Street and Apt. No.: 42 Heather Lee Lane
City, State, ZIP+4: Pelham, NH 03076-3742

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Patrick & Kim Gendron Family Trust
Street and Apt. No.: 579 Bridge Street
City, State, ZIP+4: Pelham, NH 03076-5709

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

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Sent To: Panagiotis Ravaris
Street and Apt. No.: 11 Gaudet Lane
City, State, ZIP+4: Pelham, NH 03076

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Postage $ .49
Total Postage and $ 3.94

MANCHESTER NH 03101 JUL 06 2015 Postmark Here

Sent To: New England Power Co.
Street and Apt. No.: Property Tax Dept.
City, State, ZIP+4: 40 Sylvan Road
Waltham, MA 02451

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

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Sent To: Richard & Kathleen Kres
Street and Apt. No.: 9 Tina Avenue
City, State, ZIP+4: Pelham, NH 03076-2724

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Susan Hurley and Phillip R. Giacoppo
Street and Apt. No.: 2 Rita Avenue
City, State, ZIP+4: Pelham, NH 03076-2720

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

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Sent To: Alice Symonovit
Street and Apt. No.: David Hennessey, 71 Dutton Road
City, State, ZIP+4: Pelham, NH 03076-3561

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

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Sent To: Rush Lorelei
Street and Apt. No.: 25 Old Lawrence Road
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

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Sent To: The Dalphond Family
Street and Apt. No.: 81 Brigham Ave
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

Postmark Here

Sent To: Harry L. Betty Jr. Irrevocable Trust
Street and Apt. No.: 10 Brandy Lane
City, State, ZIP+4: Pelham, NH 03076

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

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Sent To: Frederick Lane
Street and Apt. No.: 23 Lantern Lane Unit 7
City, State, ZIP+4: Dracut, MA 01826

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .99
Total Postage and Fees $ 3.99

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Sent To: DHB Homes, LLC
Street and Apt. No.: 25 Buttrick Rd. Bld. A Unit 1
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To John Mansur
Street and Apt. No. 76 Dutton Road
City, State, ZIP+4 Pelham, NH 03076

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To Brian McGowan
Street and Apt. No. PO Box 895
City, State, ZIP+4 Dracut, MA 01826

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PS Form 3800, A

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To Philip McAdam & Theresa Hill
Street and Apt. No. 5 Shelly Drive
City, State, ZIP+4 Pelham, NH 03076

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To The Ham Family
Street and Apt. No. 18 Dogwood Circle
City, State, ZIP+4 Pelham, NH 03076

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To Gary & Linda Mendes
Street and Apt. No. 44 Tallant Road
City, State, ZIP+4 Pelham, NH 03076-2234

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To Cindy Ringer
Street and Apt. No., 10 Shelly Drive
City, State, ZIP+4 Pelham, NH 03076

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Sent To: Priscilla C. Currier Revocable Trust
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Sent To: Salvatore & Glynnis Perruccio
Street and Apt. No.: 36-38 Tallant Road
City, State, ZIP+4®: Pelham, NH 03076-2233

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Sent To: Langan Family Nominee Trust
Street and Apt. No.: 19 Hayden Road
City, State, ZIP+4®: Pelham, NH 03076

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Sent To: Carol Ann Mccarthy and Scott A. Ardizzoni
Street and Apt. No.: 24 Tallant Road
City, State, ZIP+4®: Pelham, NH 03076-2233

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Sent To: Brookwood Realty Group, LLC
Street and Apt. No.: PO Box 725
City, State, ZIP+4®: Pelham, NH 03076

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Sent To: Shawn Buckley
Street and Apt. No.: 9 Carriage Circle
City, State, ZIP+4®: Pelham, NH 03076-2243

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Sent To: Edward W. Magiera, Jr.
Street and Apt. No.: 3 Eugenie Terrace
City, State, ZIP+4®: Chelmsford, MA 01824

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Sent To: Matthew Holter
Street and Apt. No.: 208 A Windham Road
City, State, ZIP+4®: Pelham, NH 03076

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Sent To: Richard Donnelly
Street and Apt. N: 285 Windham Road
City, State, ZIP+: Pelham, NH 03076

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City, State, ZIP+4®: Pelham, NH 03076-2241

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Sent To: Eric & Pamela Frank
Street and Apt. No: 18 Heather Lee Lane
City, State, ZIP+4: Pelham, NH 03076-3742

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Street and Apt. No.: 11 Old Lawrence Road
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Sent To Mark A. & Doreen J. Crandall
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Sent To Jon & Melissa Rickards
Street and Apt. No 8 Tina Avenue
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Sent To The Atwood Family
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City, State, ZIP+4® Litchfield, NH 03052

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Street and Apt. No: 66A Dutton Road
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Street and Apt. No: 17 Deer Hill Circle
City, State, ZIP+4: Pelham, NH 03076-5503

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Sent To: Desjardins Realty Trust
Street and Apt. No: 13 River Road
City, State, ZIP+4: Pelham, NH 03076

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Sent To: Nigel & Kerrijo Sampson
Street and Apt. No: 122 Frontier Drive
City, State, ZIP+4: Pelham, NH 03076-3580

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Sent To: Walter L. Nickerson Family Trust
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City, State, ZIP+4: Hudson, NH 03051

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Sent To: Salvatore Seminara
Claudette Bisson
Street and Apt. No.: 65 Dutton Road
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Sent To: Aline D. Brouillette
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City, State, ZIP+4: Hudson, NH 03051

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Sent To: Susan Richardson
Street and Apt. No: 170 Water Street
City, State, ZIP+4: Boscawen, NH 03303

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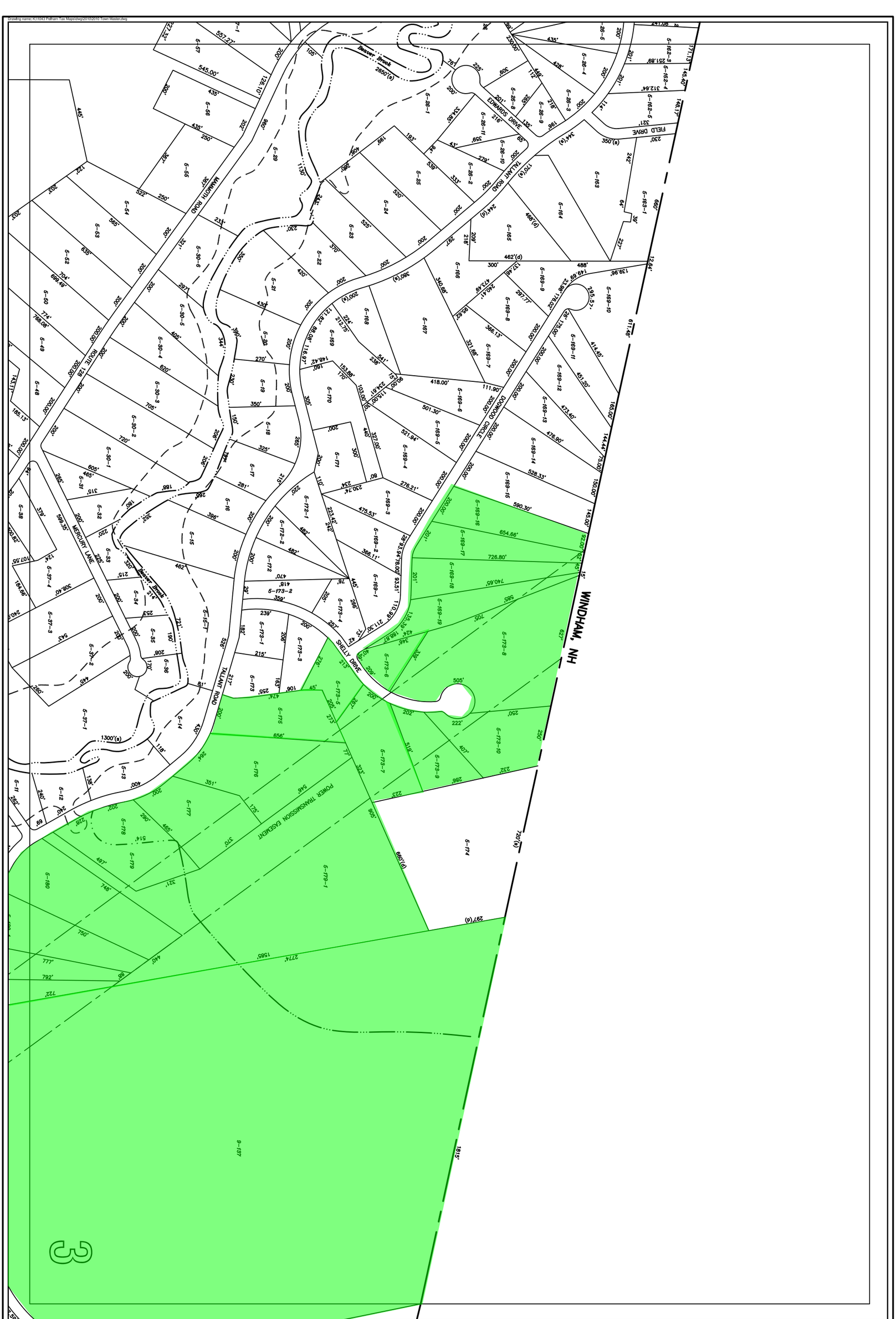

LIMIT OF 100 YEAR FLOOD PLAIN: – – – – –

Scale: 1"= 400'

October 28, 1994 (Last Updated 5/10)

Page 3

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6	2	
	3	
7		
8	4	

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SFC ENGINEERING PARTNERSHIP INC.
66 GOLD LEDGE AVENUE
AUBURN, NH 03032
TEL. 603-647-8700
FAX. 603-647-8711
www.sfceng.com

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Page 7

13	6	2
	7	3
14		
15	8	4

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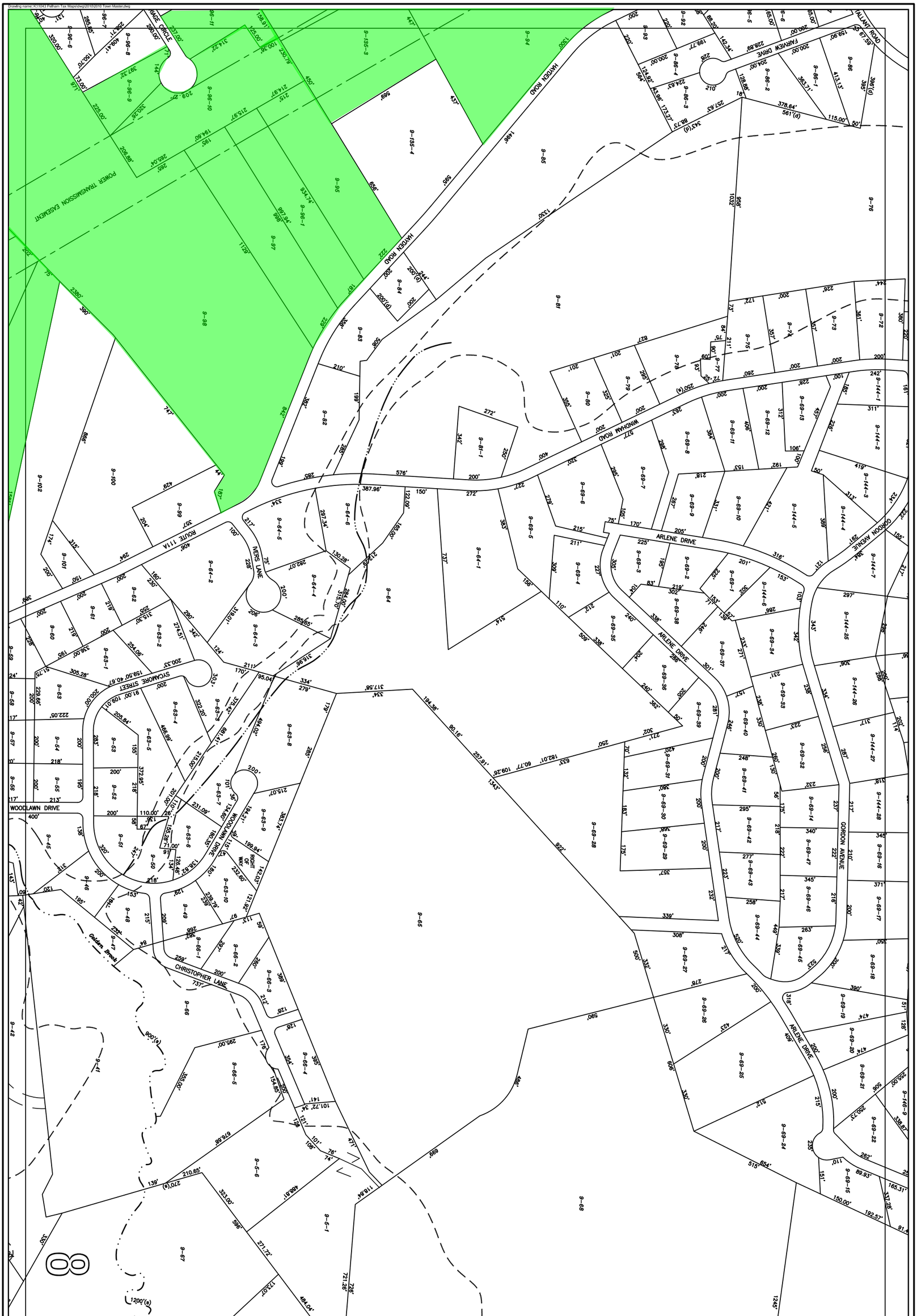

14	7	3
15	8	4
16	9	5

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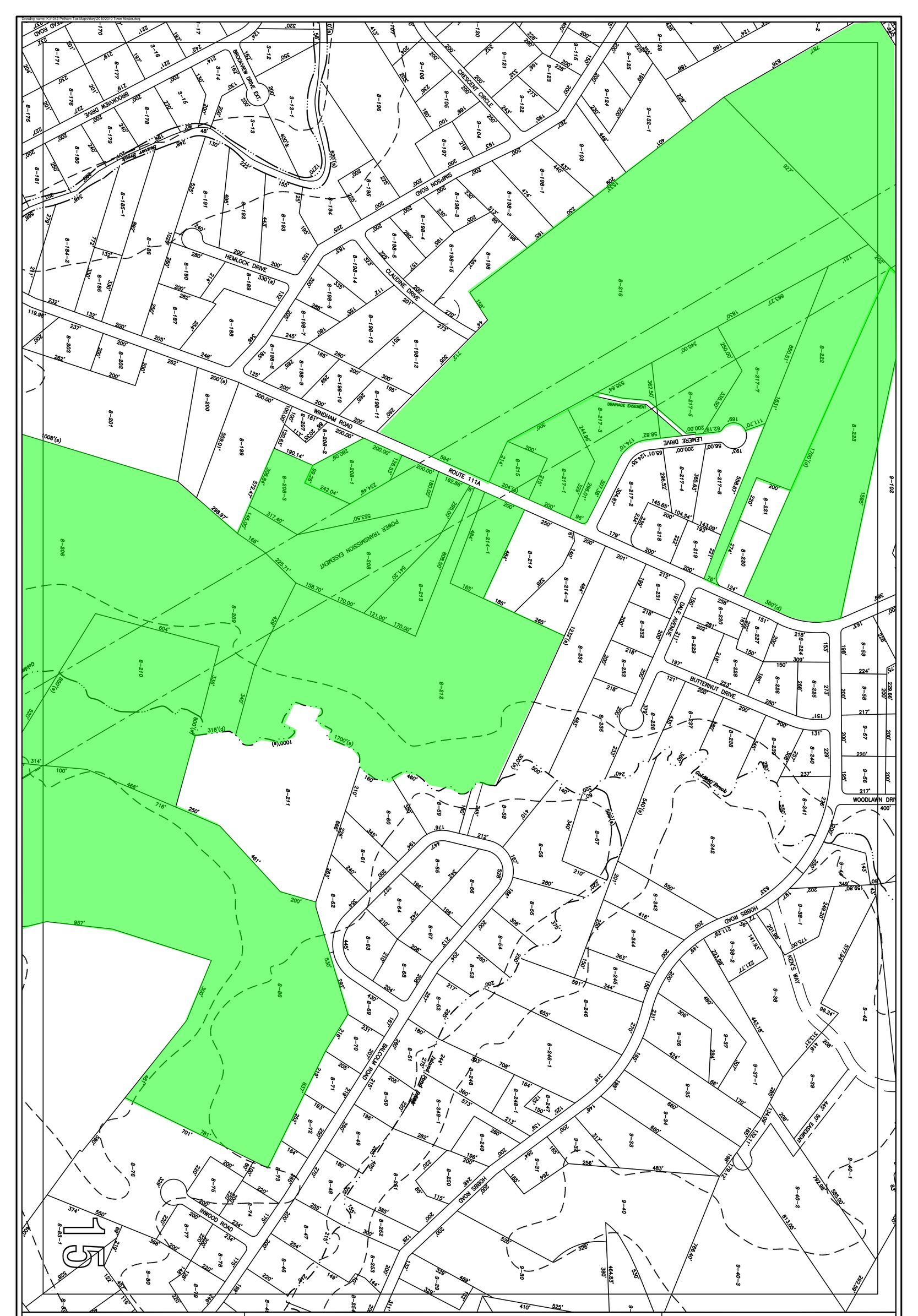

21	14	7
22	15	8
23	16	9

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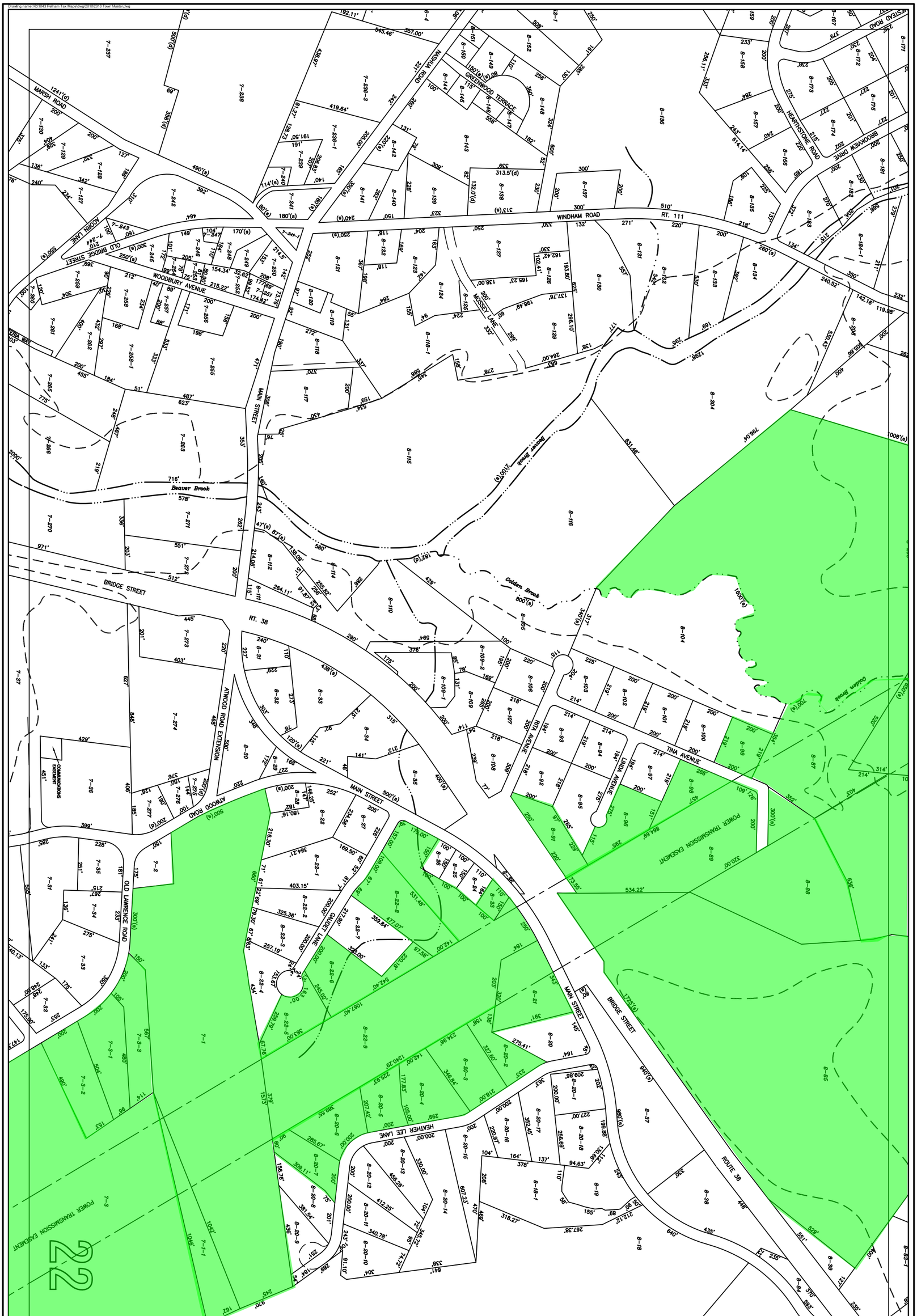

28	21	14
29	22	15
30	23	16

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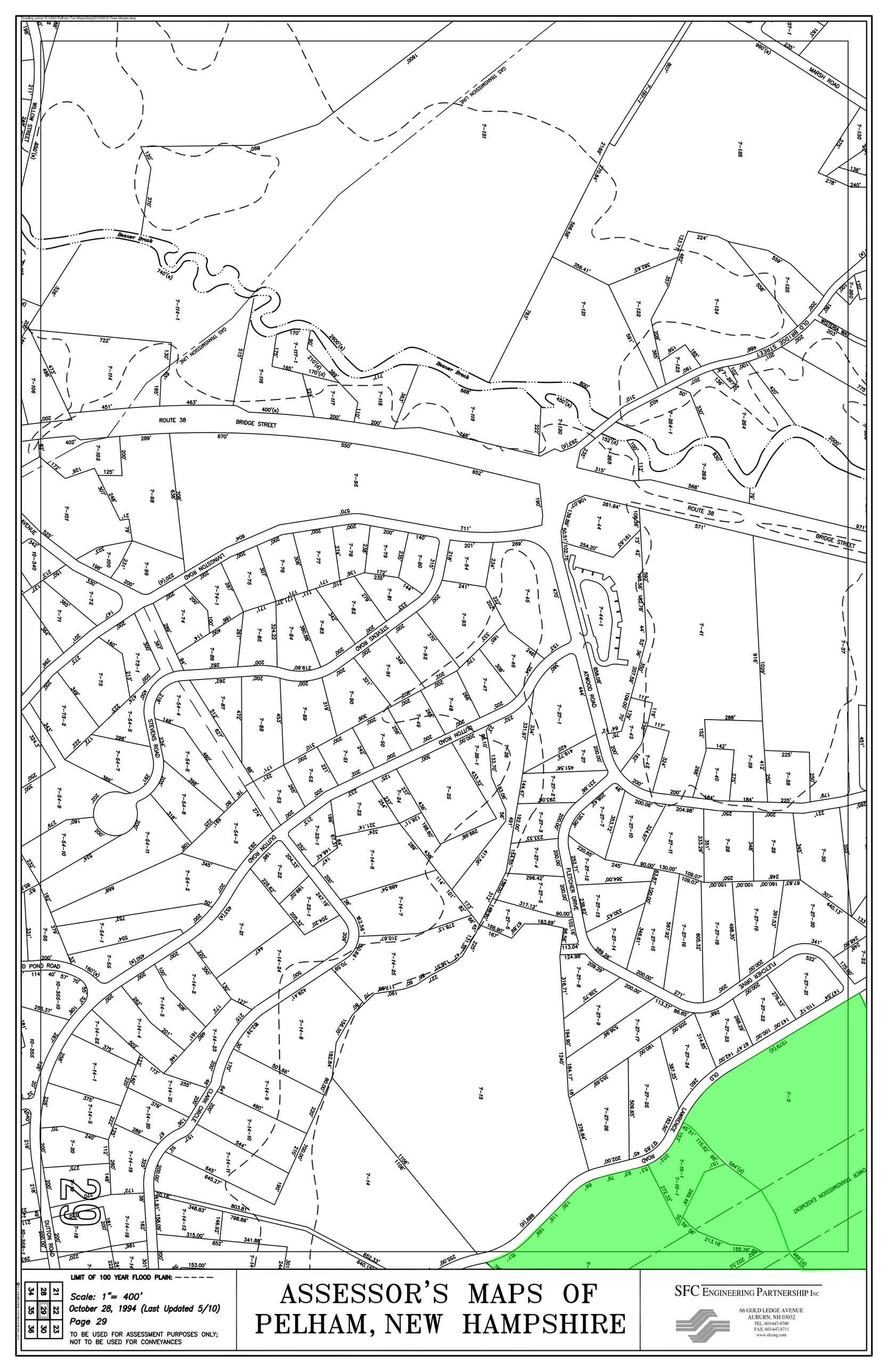
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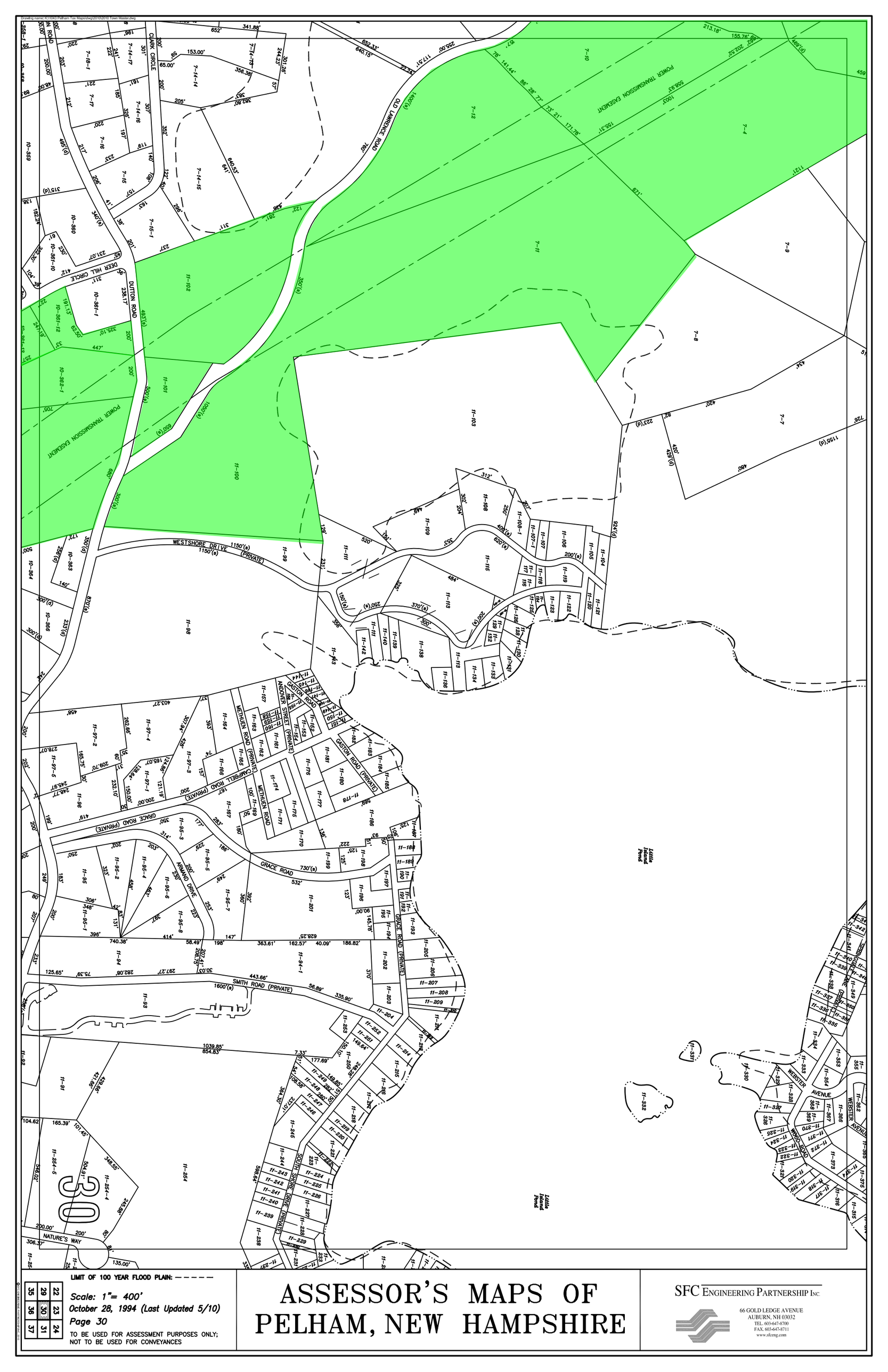
MARSH ROAD
OLD BRIDGE STREET
WESTERN AVE
LUNGSTON ROAD
STICKNEY ROAD
STEVENS ROAD
DUTTON ROAD
ATWOOD ROAD
FLETCHER DRIVE
OLD LAWRENCE ROAD
GAS TRANSMISSION LINE
POWER TRANSMISSION EASEMENT
Beaver Brook
LIMIT OF 100 YEAR FLOOD PLAIN: - - - - - -
Scale: 1"= 400'
October 28, 1994 (Last Updated 5/10)
Page 29
TO BE USED FOR ASSESSMENT PURPOSES ONLY; NOT TO BE USED FOR CONVEYANCES
ASSESSOR'S MAPS OF PELHAM, NEW HAMPSHIRE
SFC ENGINEERING PARTNERSHIP INC.
66 GOLD LEDGE AVENUE
AUBURN, NH 03032
TEL. 603-647-8700
FAX. 603-647-8711
www.sfceng.com


Drawing name: K:\01043 Pelham Tax Maps\dwg\2010\2010 Town Master.dwg
OLD LANCASTER ROAD
CLARK CIRCLE
DEER HILL CIRCLE
DUTTON ROAD
POWER TRANSMISSION EASEMENT
WESTSHORE DRIVE (PRIVATE)
1150'(e)
ANDOVER STREET (PRIVATE)
METHUEN ROAD (PRIVATE)
METHUEN ROAD
GASTON ROAD (PRIVATE)
CAMPBELL ROAD (PRIVATE)
GRACE ROAD (PRIVATE)
GRACE ROAD
730'(e)
ARMAND DRIVE
SMITH ROAD (PRIVATE)
1600'(e)
SPRUCE ROAD (PRIVATE)
DRIVE (PRIVATE)
NATURE'S WAY
WEBSTER AVENUE
Little Island Pond
30
LIMIT OF 100 YEAR FLOOD PLAIN: - - - - - -
Scale: 1"= 400'
October 28, 1994 (Last Updated 5/10)
Page 30
TO BE USED FOR ASSESSMENT PURPOSES ONLY; NOT TO BE USED FOR CONVEYANCES
35 29 22
36 30 23
37 31 24
ASSESSOR'S MAPS OF PELHAM, NEW HAMPSHIRE
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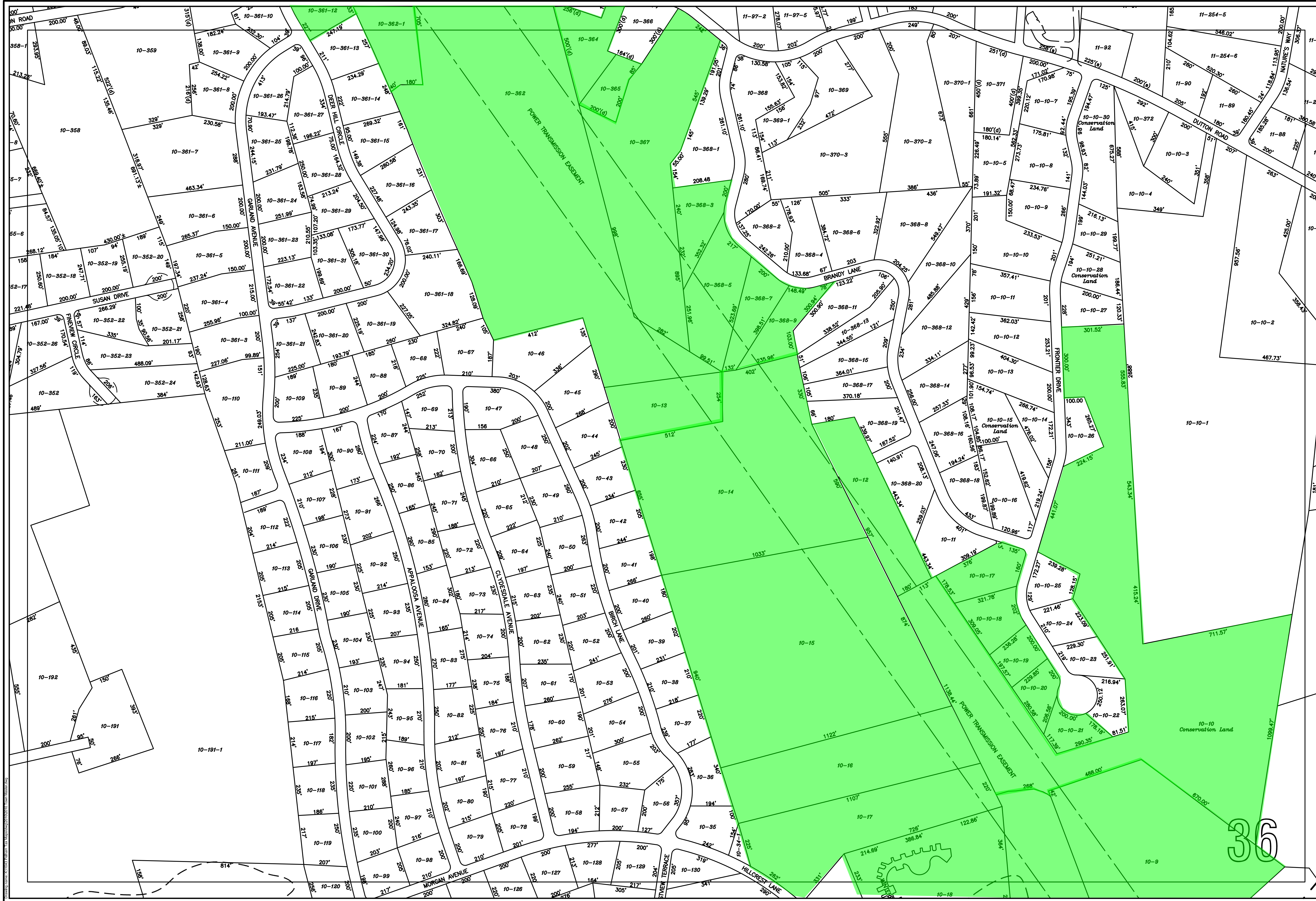

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ASSESSOR'S MAPS OF PELHAM, NEW HAMPSHIRE

LIMIT OF 100 YEAR FLOOD PLAIN: – – – – –

Scale: 1"= 400'

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Page 36

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29	30	31
35	36	37
41	42	

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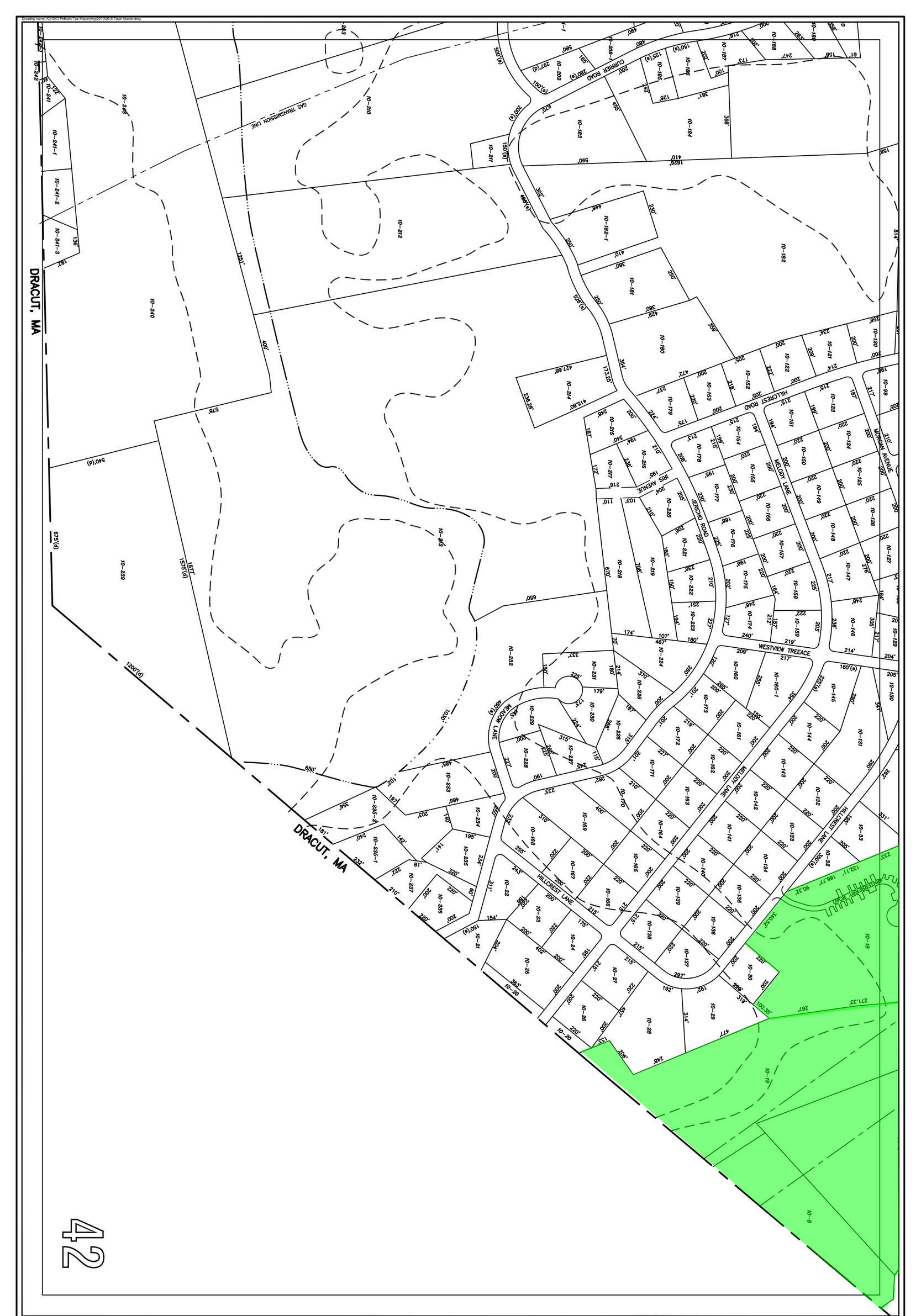

24

LIMIT OF 100 YEAR FLOOD PLAIN: - - - - - -

	35	
41	42	36
		37

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October 28, 1994 (Last Updated 5/10)
Page 42

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Windham Tax Maps

Owner/Abutter List (Windham, New Hampshire)

All of the project work will occur within an existing utility right-of-way, thus abutters do not need to be notified. Below is a list of all properties within and directly adjacent to the project right-of-way. Notifications were sent to the property owners listed below. Properties located outside of the right-of-way are *italicized*.

Owner/Abutter	Tax Map Number (map – block – lot)	Mailing Address
	Tax Map 26	
Town of Windham	14-A-230	3 No. Lowell Road Windham, NH 03087
James Gendron	14-A-300	16 Bridle Bridge Road Windham, NH 03087
State of New Hampshire Department of Transportation	14-A-300A	PO Box 483 Concord, NH 03301-0483
Dorothy, William, & Carolyn E. Quigley	*14-A-350*	*14 Bridle Bridge Road* *Windham, NH 03087-1728*
Michael A. Bisson	14-A-400	10 Bridle Bridge Road Windham, NH 03087
Michael A. Bisson	14-A-450	10 Bridle Bridge Road Windham, NH 03087
Thomas G. Crocker & Lenore Crocker	19-A-101	3 Bridle Bridge Road Windham, NH 03087
Maryland & Theophil Glance	19-A-200	64 Mammoth Road Windham, NH 03087
Sun Coast Properties LLC	19-A-300	c/o Phil Lochiatto PO Box 4084 Windham, NH 03087
Frederick and Roberta Ford	19-A-400	70 Mammoth Road Windham, NH 03087-1707
Maryland & Theophil Glance	19-A-500	64 Mammoth Road Windham, NH 03087
Windham Meadows Development, LLC	19-A-801	c/o Jean Osborne 24 Brookview Road Windham, NH 03087
Windham Meadows PH 2, Condo	19-A-802	c/o Alan Kirkman 12 Brookview Road Windham, NH 03087
Tennessee Gas Pipeline Company	19-A-850	PO Box 7372 Houston, TX 77210-4372
Dawn M. Wentworth & Edward C. Gay	19-A-1000	91 Mammoth Road Windham, NH 03087

David F. Johns	19-B-501	77 Mammoth Road Windham, NH 03087-1708
The Kelly Family	19-B-506	73 Mammoth Road Windham, NH 03087
Town of Windham	19-B-701	3 No. Lowell Road Windham, NH 03087
The Webman Family	*19-B-714*	*4 Glance Road* *Windham, NH 03087*
Town of Windham	19-B-715	3 No. Lowell Road Windham, NH 03087
Tax Map 31		
Whispering Winds Adult Community Condominium	19-A-800	c/o Leroy Waks 1 Pleasant Street Windham, NH 03087
Mark F. Thompson	19-B-900	87 Mammoth Road Windham, NH 03087
Andrew W. Fuller	19-B-903	11 Autumn Street Windham, NH 03087
Gail S. Gumbel Revocable Trust	19-B-904	13 Autumn Street Windham, NH 03087
Homer Shannon	19-B-905	15 Autumn Street Windham, NH 03087
The Trudel Family	19-B-906	17 Autumn Street Windham, NH 03087
The Lundquist Family	19-B-912	2 Winter Street Windham, NH 03087
Gail L. Bennett	19-B-913	1 Winter Street Windham, NH 03087
Jason Wing & Jennifer Sugerman	19-B-914	3 Winter Street Windham, NH 03087
The Sullivan Family	*19-B-919*	*3 Autumn Street* *Windham, NH 03087*
The Johnson Family	*19-B-920*	*5 Autumn Street* *Windham, NH 03087*
William Whittemore	*19-B-921*	*7 Autumn Street* *Windham, NH 03087*
The Salter Family	19-B-922	9 Autumn Street Windham, NH 03087
Dawn M. Wentworth & Edward C. Gay	19-B-1000	91 Mammoth Road Windham, NH 03087

The Carney Family	19-B-3007	140 Castle Hill Road Windham, NH 03087
Tax Map 32		
The Cronin Family	*24-F-101*	*149 Castle Hill Road* *Windham, NH 03087*
George J. Grenier Revocable Trust	24-F-102	8R Indian Hill Road Derry, NH 03038
John G. Caldwell & Betty W. Caldwell	24-F-103	145 Castle Hill Road Windham, NH 03087
Mekdes A. Yacob	24-F-104	PO Box 4074 Windham, NH 03087
Garrett Mccarron and Janet & Richard Florino	24-F-105	139 Castle Hill Road Windham, NH 03087
The Smith Family	24-F-106	143 Castle Hill Road Windham, NH 03087
The Levesque Family	24-F-139	135 Castle Hill Road Windham, NH 03087
Great Mountain View Estates, LLC	24-F-602	PO Box 732 Pelham, NH 03076
Great Mountain View Estates, LLC	24-F-625	PO Box 732 Pelham, NH 03076
Great Mountain View Estates, LLC	24-F-626	PO Box 732 Pelham, NH 03076
The Goodman Family	19-B-3006	138 Castle Hill Road Windham, NH 03087
Tax Map 36		
Jay S. Koutavas	24-F-5	15 Field Road Windham, NH 03087
Great Mountain View Estates, LLC	24-F-627	PO Box 732 Pelham, NH 03076
Great Mountain View Estates, LLC	24-F-631	PO Box 732 Pelham, NH 03076
Brian Fillion and Kelly Decollibus	*24-F-632*	*51 Ryan Farm Road* *Windham, NH 03087*
John & Lisa Tarabocchia	24-F-633	49 Ryan Farm Road Windham, NH 03087-1849
Peter E. Root & Kelly J. Root	24-F-634	47 Ryan Farm Road Windham, NH 03087
Dennis & Sandra Chedraui	24-F-635	45 Ryan Farm Road Windham, NH 03087-1849
Robert J. Peterson, Trustee of K. M. Realty Trust	24-F-825	9 Shelly Drive Pelham, NH 03076
Town of Windham	24-F-900	3 No. Lowell Road Windham, NH 03087

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State of New Hampshire
Department of Transportation
PO Box 483
Concord, NH 03301-0483

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8R Indian Hill Road
Derry, NH 03038

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3 Autumn Street
Windham, NH 03087

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Condominium
c/o Leroy Waks
1 Pleasant Street
Windham, NH 03087

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: Jason Wing & Jennifer Sugerman
Street and Apt. N: 3 Winter Street
City, State, ZIP+4: Windham, NH 03087

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: William Whittemore
Street and Apt. No.: 7 Autumn Street
City, State, ZIP+4®: Windham, NH 03087

PS Form 3800, Ap

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: Andrew W. Fuller
Street and Apt. No: 11 Autumn Street
City, State, ZIP+4: Windham, NH 03087

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Sent To: The Trudel Family
Street and Apt. N: 17 Autumn Street
City, State, ZIP+4: Windham, NH 03087

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

Dawn M. Wentworth & Edward C. Gay
91 Mammoth Road
Windham, NH 03087

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

The Webman Family
4 Glance Road
Windham, NH 03087

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7015 0640 0005 2830 2238

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

Maryland & Theophil Glance
64 Mammoth Road
Windham, NH 03087

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

Windham Meadows Development, LLC
c/o Jean Osborne
24 Brookview Road
Windham, NH 03087

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

Town of Windham
3 No. Lowell Road
Windham, NH 03087

PS Form 3800,

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4

Postmark Here

Dorothy, William, & Carolyn E. Quigley
14 Bridle Bridge Road
Windham, NH 03087-1728

PS Form 3800,

7015 0640 0005 2830 2276

7015 0640 0007 9798 6641

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL - 6 2015

Sent To: The Goodman Family
Street and Apt.: 138 Castle Hill Road
City, State, ZIP: Windham, NH 03087

PS Form 3800

7015 0640 0007 9798 6634

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- ☐ Return Receipt (electronic) $ ____
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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL - 6 2015

Sent To: John & Lisa Tarabocchia
Street and Apt. No.: 49 Ryan Farm Road
City, State, ZIP+4: Windham, NH 03087-1849

PS Form 3800, A

7015 0640 0005 2830 2405

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL - 6 2015

Sent To: John G. Caldwell & Betty W. Caldwell
Street and Apt. No.,: 145 Castle Hill Road
City, State, ZIP+4®: Windham, NH 03087

PS Form 3800, Ap

7015 0640 0005 2830 2399

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL 6 2015

Sent To: The Smith Family
Street and Apt. No: 143 Castle Hill Road
City, State, ZIP+4: Windham, NH 03087

PS Form 3800,

7015 0640 0005 2830 2412

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL - 6 2015

Sent To: The Carney Family
Street and Apt. No.,: 140 Castle Hill Road
City, State, ZIP+4®: Windham, NH 03087

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 USPS Postmark Here JUL - 6 2015

Sent To: Thomas G. Crocker & Lenore Crocker
Street and Apt. No: 3 Bridle Bridge Road
City, State, ZIP+4: Windham, NH 03087

PS Form 3800,

7015 0640 0005 2830 2436

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
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USPS 03110

Sent To: Gail L. Bennett
Street and Apt. No.: 1 Winter Street
City, State, ZIP+4®: Windham, NH 03087

PS Form 3800, A

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
JUL - 6 2015
USPS 03110

Sent To: The Johnson Family
Street and Apt. No.: 5 Autumn Street
City, State, ZIP+4®: Windham, NH 03087

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
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USPS 03110

Sent To: Mark F. Thompson
Street and Apt. No.: 87 Mammoth Road
City, State, ZIP+4®: Windham, NH 03087

PS Form 3800, Ap

7015 0640 0005 2830 2443

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
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USPS 03110

Sent To: Homer Shannon
Street and Apt. No.: 15 Autumn Street
City, State, ZIP+4®: Windham, NH 03087

PS Form 3800, Apr

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
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Sent To: Tennessee Gas Pipeline Company
Street and Apt. No.: PO Box 7372
City, State, ZIP+4®: Houston, TX 77210-4372

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here
JUL - 6 2015
USPS 03110

Sent To: The Kelly Family
Street and Apt. No.: 73 Mammoth Road
City, State, ZIP+4®: Windham, NH 03087

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7015 0640 0005 2830 2290

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$ .49

Total Postage and
$ 3.94

Sent To
Street and Apt. No.
City, State, ZIP+4®

Dennis & Sandra Chedraui
45 Ryan Farm Road
Windham, NH 03087-1849

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MANCHESTER NH BEDFORD BRANCH 03110
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USPS

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$ .49

Total Postage and
$ 3.94

Sent To
Street and Apt. No.
City, State, ZIP+4®

Frederick and Roberta Ford
70 Mammoth Road
Windham, NH 03087-1707

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$ .49

Total Postage and
$ 3.94

Sent To
Street and Apt. No.
City, State, ZIP+4®

Brian Fillion and Kelly Decollibus
51 Ryan Farm Road
Windham, NH 03087

PS Form 3800, A

MANCHESTER NH BEDFORD BRANCH 03110
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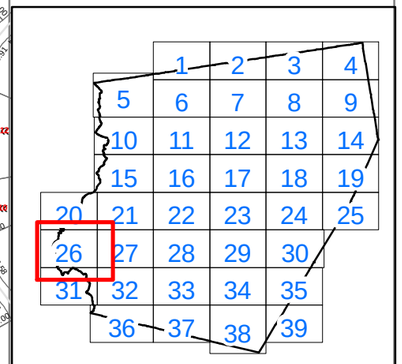
2015
USPS

Windham

2013

Tax Map Page 26



20

21

26

27

31

Haverhill Rd

Twin St

Barker Rd

Castle Hill Rd

Gillis Rd

111 / Hudson

to Hudson NH

Bridle Bridge Rd

Brookview Rd

Misty Meadow Rd

Pleasant St

Mammoth Rd

Mary St

Autumn St

Karen Rd

MAP KEY

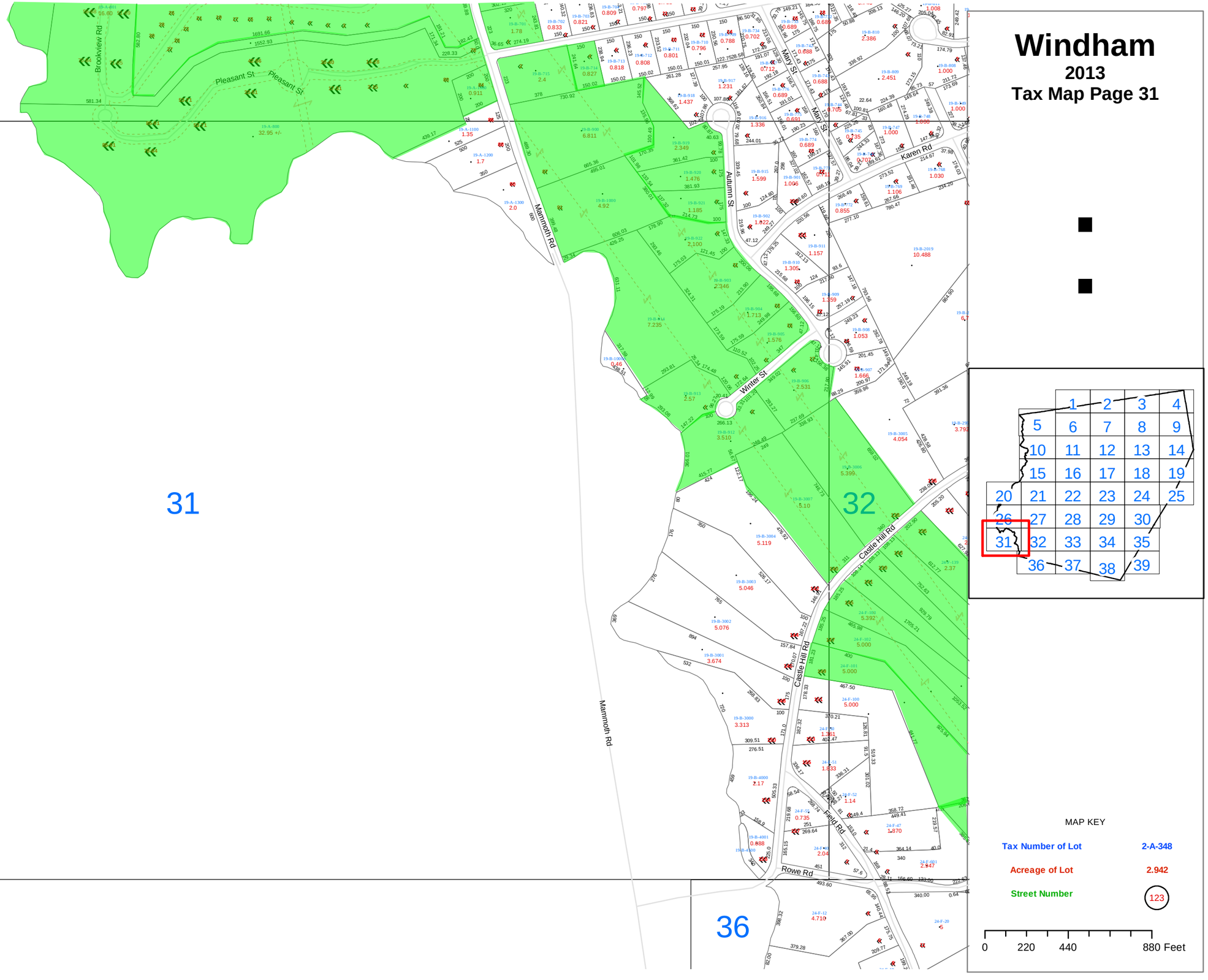
Tax Number of Lot — 2-A-348

Acreage of Lot — 2.942

Street Number — 123

0 220 440 880 Feet

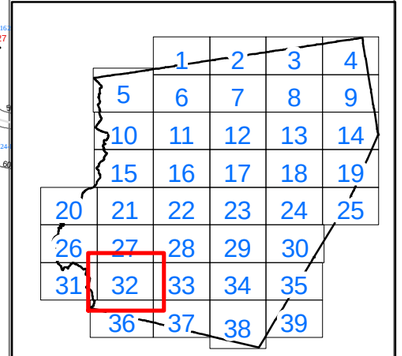
Windham
2013
Tax Map Page 31



Windham

2013

Tax Map Page 32



MAP KEY

Tax Number of Lot — 2-A-348

Acreage of Lot — 2.942

Street Number — 123

0 220 440 880 Feet

27

32

33

36

37

Lancaster Rd

Karen Rd

Mary St

Linda St

Timberlane Rd

Heritage Hill Rd

Castle Hill Rd

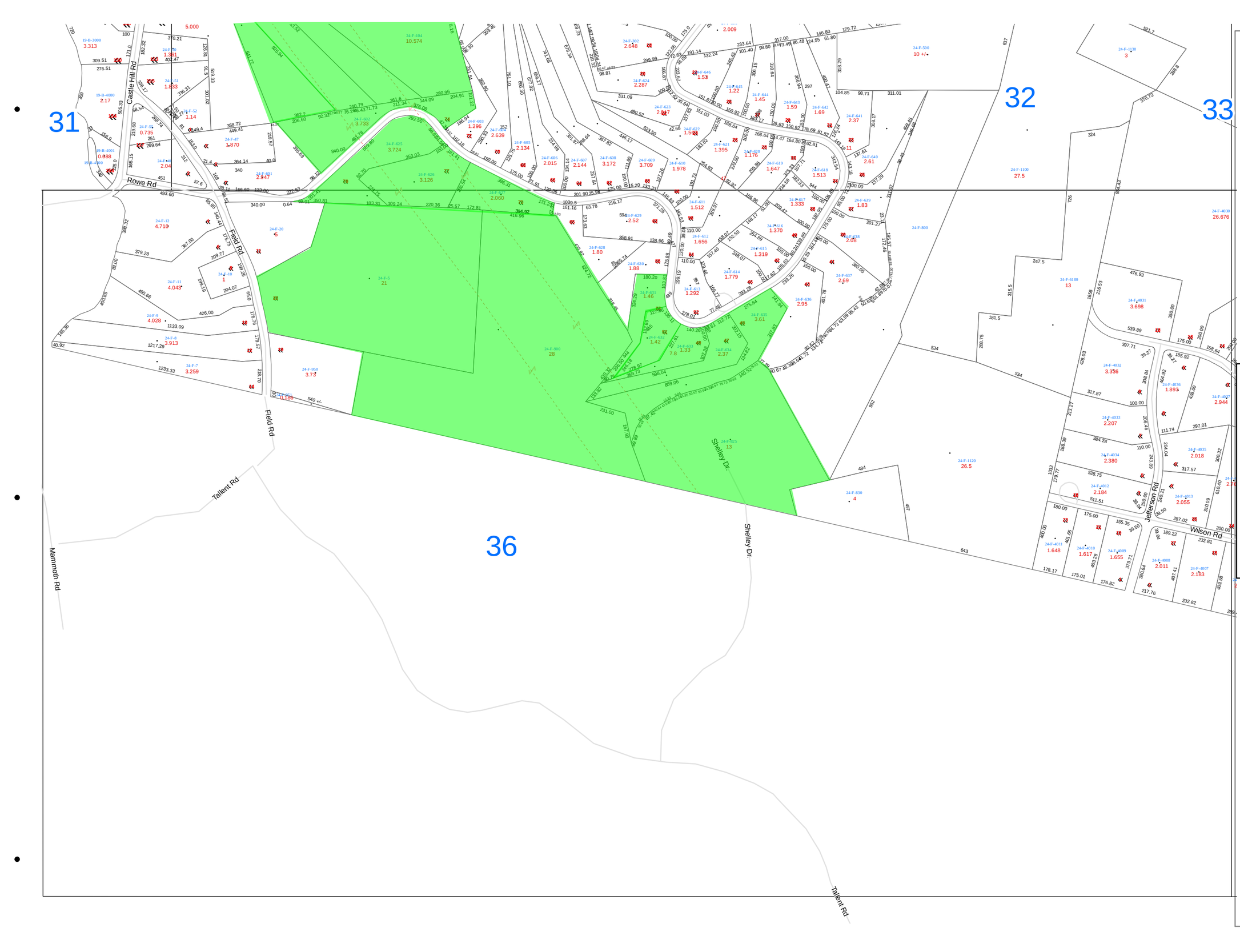
Field Rd

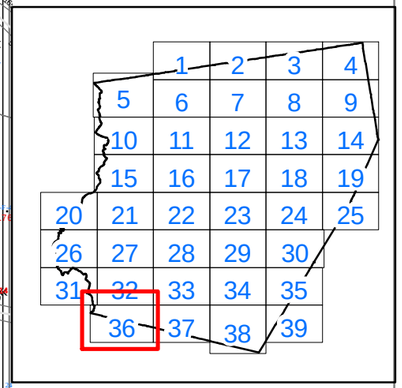
Rowe Rd

Windham

2013

Tax Map Page 36





MAP KEY

Tax Number of Lot	2-A-348
Acreage of Lot	2.942
Street Number	123

0 220 440 880 Feet

Hudson Tax Maps

Owner/Abutter List (Hudson, New Hampshire)

All of the project work will occur within an existing utility right-of-way, thus abutters do not need to be notified. Below is a list of all properties within and directly adjacent to the project right-of-way. Notifications were sent to the property owners listed below. Properties located outside of the right-of-way are *italicized*.

Owner/Abutter	Tax Map Number (map – block – lot)	Mailing Address
	Tax Map 102	
Douglas C. Harvey, Jr. & Linda K. Harvey	102-8	PO Box 639 Londonderry, NH 03053
Sophie and Stanley Alukonis	102-10	123 Central Street Hudson, NH 03051
Town of Hudson	102-11	12 School Street Hudson, NH 03051
	Tax Map 107	
Ralph W. Esburnett	107-1	34 Boyd Road Hudson, NH 03051
Katherine Guilbeault and Lynwood Gilcreast	107-2	42 Boyd Road Hudson, NH 03051
Public Service Company of NH C/O Tax Accounting	107-3	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	107-3-1	PO Box 330 Manchester, NH 03105-0330
Katherine Guilbeault and Lynwood Gilcreast	*107-4*	*42 Boyd Road Hudson, NH 03051*
Ernest R. Dupras, III	*107-19*	*31 Breakneck Road Hudson, NH 03051*
Kyle & Melissa Labrecque	*107-20*	*29 Breakneck Road Hudson, NH 03051*
Jeffrey & Vicky Eaton	*107-21*	*27 Breakneck Road Hudson, NH 03051*
Aaron & Kari Brace	*107-22*	*25 Breakneck Road Hudson, NH 03051*
Jerry & Bonnie Gage-Anderson	*107-23*	*23 Breakneck Road Hudson, NH 03051*
David Connors & Lynn M. Ministeri	*107-24*	*21 Breakneck Road Hudson, NH 03051*

Chris C. Cowen	*107-25*	*19 Breakneck Road* *Hudson, NH 03051*
Mario & Denyse Plante	*107-26*	*9 Old Derry Road* *Hudson, NH 03051*
Robert Panciocco	*107-27*	*392 Spofford Road* *Auburn, NH 03032*
Christopher & Tierney Chadwick	*107-28*	*9 Breakneck Road* *Hudson, NH 03051*
Hector & Deborah Nault	*107-29*	*45 Boyd Road* *Hudson, NH 03051*
Public Service Company of NH C/O Tax Accounting	107-30	PO Box 330 Manchester, NH 03105-0330
Mario & Denyse Plante	107-31	9 Old Derry Road Hudson, NH 03051
Anthony Yergeau	107-32	39A Boyd Road Hudson, NH 03051
Mark Tello	107-33-1	37A Boyd Road Hudson, NH 03051
Kellie M. Carlin	107-33-2	37B Boyd Road Hudson, NH 03051
Town of Hudson	*107-34*	*12 School Street* *Hudson, NH 03051*

Tax Map 112

Ben-Lu, LLC	112-3	5 Bailey Road Salem, NH 03079
Christina M. Cates	112-4-1	66A Kienia Road Hudson, NH 03051
John M. Reis & Robin L. Reis	112-4-2	66B Kienia Road Hudson, NH 03051
Leonard A. Vigeant, Trustee Jane M. Vigeant, Trustee Vigeant Revocable Trust	112-5-1	5 Mockingbird Lane Hudson, NH 03051
John Tamvaklis & Christine Tamvaklis	112-5-2	23 Glennon Avenue Dracut, MA 01826-4406
Daniel & Janet Devlin	112-6	1 Marie Lane Hudson, NH 03051
Lisa R. Forsberg	112-7	3 Marie Lane Hudson, NH 03051
Robert & Payel Bharat Guibeault	112-8	5 Marie Lane Hudson, NH 03051

Dawn M. Pilat & Louis A. Pilat	112-11	2 Marie Lane Hudson, NH 03051
James & Janice Martin	112-12	52 Kienia Road Hudson, NH 03051
Gregory & Kimberly Gush	112-13	50 Kienia Road Hudson, NH 03051
Gerald & Betty Ann Jourdain	112-14	48 Kienia Road Hudson, NH 03051
Mark D. Livingston	112-15	31 Gail Road Merrimack, NH 03054-4555
Richard E. Ventola	112-16-1	49A Kienia Road Hudson, NH 03051
William Jobin & Joyce Jobin	112-16-2	49B Kienia Road Hudson, NH 03051
William D. Martin & Kathleen E. Martin	112-17	25 Empire Street Chelmsford, MA 01824
William D. Martin & Kathleen E. Martin	112-18	25 Empire Street Chelmsford, MA 01824
Shawn P. Murray & Dorothy G. Murray	112-19	55 Kienia Road Hudson, NH 03051
Derek S. Lloyd & Caitlin M. Bulmer	112-20	57 Kienia Road Hudson, NH 03051
Paul D. Albert & Brenda M. King	112-21-1	59A Kienia Road Hudson, NH 03051
Stephen R. Peebles & Danielle R. Peebles	112-21-2	59B Kienia Road Hudson, NH 03051
Carlos A. Medieros & Barbara M. Medieros	112-22	61 Kienia Road Hudson, NH 03051
Tax Map 118		
Kevin W. Susi	118-10-1	2A Lenny Lane Hudson, NH 03051
Marlene Y. Dionne & Duane M. Dionne	118-10-2	4 Hudson Park Drive Hudson, NH 03051
Rene F. Darisse	118-11	4 Lenny Lane Hudson, NH 03051
Mary Thibodeau	118-12-1	6A Lenny Lane Hudson, NH 03051
Joseph E. Pietrowski & Denise Pietrowski	118-12-2	6B Lenny Lane Hudson, NH 03051

Paul Miller	118-13-1	24 Cutler Road Litchfield, NH 03052
Victor M. Moniz & Debi A. Moniz	118-13-2	8B Lenny Lane Hudson, NH 03051
Michael S. Carbonneau & Sherry M. Carbonneau	118-21	21 Lenny Lane Hudson, NH 03051
David W. Wendt, Trustee Wendt Living Trust	118-22	4 Melissa Drive Nashua, NH 03062-3642
Debora Covino	118-23	15B Lenny Lane Hudson, NH 03051
Terrance Martin	118-24-1	15A Lenny Lane Hudson, NH 03051
Debora Covino	118-24-2	15B Lenny Lane Hudson, NH 03051
Leonard A. Vigeant, Trustee & Jane M. Vigeant, Trustee Vigeant Revocable Trust	118-25-1	5 Mockingbird Lane Hudson, NH 03051
Susan Vallier	118-25-2	13B Lenny Lane Hudson, NH 03051
Angela L. Halliday & David R. Halliday	118-26-1	11A Lenny Lane Hudson, NH 03051
Douglas Hall & Sheila Hall	118-26-2	11B Lenny Lane Hudson, NH 03051
Seth R. Lambert, Trustee & Ryan J. Lambert, Trustee Lambert 2014 Family Trust	118-27	45 Kienia Road Hudson, NH 03051
Beverly D. Gagnon, Trustee	118-28	41 Kienia Road Hudson, NH 03051
Steven D. Jacques & Nancy C. M. Jacques	118-29	39 Kienia Road Hudson, NH 03051
Michael A. Michaud & Marie F. Beaulieau	118-30	37 Kienia Road Hudson, NH 03051
Dana A. Carson & Maria Carson	118-31	33 Kienia Road Hudson, NH 03051
Stephen D. Morrill	118-32	31 Kienia Road Hudson, NH 03051
Curtis Ouellette & Milly Ouellette	118-36	18 David Drive Hudson, NH 03051
Jacques Savoie & Deborah A. H. Savoie	118-37	24 David Drive Hudson, NH 03051
Christopher W. Floyd, Sr.	118-57	25 David Drive Hudson, NH 03051

Marc R. Derosiers & Mona T. Derosiers	118-58	24 Lenny Lane Hudson, NH 03051
Tax Map 126		
William & Gail Dion	126-19	19 David Drive Hudson, NH 03051
Sophie and Stanley Alukonis	126-29	123 Central Street Hudson, NH 03051
Lavinia Miller	126-32	50 Griffin Road Hudson, NH 03051
Society for the Protection of New Hampshire Forests	126-35	54 Portsmouth St. Concord, NH 03301
Tax Map 135		
Lavinia Miller	135-17	50 Griffin Road Hudson, NH 03051
Tax Map 136		
John & Jeanne Quigley, and Kathryn Gallan	136-7	4 McCrady Drive Hudson, NH 03051
Dana Ordway	136-8	5 McCrady Drive Hudson, NH 03051
Gerald & Melissa Talty	136-13	26 Bockes Road Hudson, NH 03051
Daniel and Lindsey Delorenzo	136-14-1	88 Litchfield Road Hudson, NH 03051
Dennis Messier	136-14-2	2B Hopkins Drive Hudson, NH 03051
Andrew and Faith Renzullo	136-14-3	2 Heritage Circle Hudson, NH 03051
Heather Newell	136-14-4	6 Lee Joy Lane Hudson, NH 03051
Caroline Grandy	136-15-1	4A Hopkins Drive Hudson, NH 03051
Michael Manning and Shannon Powell	136-15-2	4B Hopkins Drive Hudson, NH 03051
Tracy Kehoe	136-16	6 Hopkins Drive Hudson, NH 03051
Carmen Hardman	136-17	10 Hopkins Drive Hudson, NH 03051

Frank Martinelli Sandra N. Martinelli	136-18	12 Hopkins Drive Hudson, NH 03051
Richard & Eleanor Stephens	136-33	31 Bockes Road Hudson, NH 03051
Kenneth & Kim Cushman	136-34	23 Bockes Road Hudson, NH 03051
Robert Roystand	136-35	PO Box 119 Hudson, NH 03051

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Ryan J. Lambert, Trustee
Lambert 2014 Family Trust
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Street and Apt. No.: 39A Boyd Road
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Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: Robert Panciocco
Street and Apt. No.: 392 Spofford Road
City, State, ZIP+4: Auburn, NH 03032

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7015 0640 0005 2830 1330

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: Leonard A. Vigeant, Trustee
Jane M. Vigeant, Trustee
Street and Apt. No.: Vigeant Revocable Trust
City, State, ZIP+4: 5 Mockingbird Lane
Hudson, NH 03051

PS Form 3800, A

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Ben-Lu, LLC
Street and Apt. No.: 5 Bailey Road
City, State, ZIP+4: Salem, NH 03079

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94
Sent To
Street and Apt. No.,
City, State, ZIP+4®

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Tracy Kehoe
6 Hopkins Drive
Hudson, NH 03051

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To
Street and Apt. No.
City, State, ZIP+4®

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Heather Newell
6 Lee Joy Lane
Hudson, NH 03051

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7015 0640 0005 2830 1934

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- ☐ Return Receipt (electronic) $
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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here

Jeffrey & Vicky Eaton
27 Breakneck Road
Hudson, NH 03051

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To
Street and Apt. No
City, State, ZIP+4®

Postmark Here

Richard & Eleanor Stephens
31 Bockes Road
Hudson, NH 03051

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7015 0640 0005 2830 1910

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94
Sent To
Street and Apt. No.,
City, State, ZIP+4®

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Christopher W. Floyd, Sr.
25 David Drive
Hudson, NH 03051

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94
Sent To
Street and Apt. No
City, State, ZIP+4®

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John & Jeanne Quigley, and
Kathryn Gallan
4 McCrady Drive
Hudson, NH 03051

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7015 0640 0005 2830 1774

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: Stephen D. Morrill
Street and Apt. No.: 31 Kienia Road
City, State, ZIP+4®: Hudson, NH 03051

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7015 0640 0005 2830 1941

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: Daniel and Lindsey Delorenzo
Street and Apt. No.: 88 Litchfield Road
City, State, ZIP+4®: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1798

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: Douglas Hall & Sheila Hall
Street and Apt. No: 11B Lenny Lane
City, State, ZIP+4®: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1781

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage an $ 3.94

Postmark Here

Sent To: Steven D. Jacques & Nancy C. M. Jacques
Street and Apt. N: 39 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800,

7015 0640 0005 2830 1804

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To: David W. Wendt, Trustee
Street and Apt. Nc: Wendt Living Trust
City, State, ZIP+4: 4 Melissa Drive
Nashua, NH 03062-3642

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: Paul Miller
Street and Apt. No.,: 24 Cutler Road
City, State, ZIP+4®: Litchfield, NH 03052

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7015 0640 0005 2830 1828

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To: Rene F. Darisse
Street and Apt. No: 4 Lenny Lane
City, State, ZIP+4: Hudson, NH 03051

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7015 0640 0005 2830 1835

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

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Sent To: Carlos A. Medieros & Barbara M. Medieros
Street and Apt. No: 61 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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7015 0640 0005 2830 1859

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

JUL - 6 2015 Postmark Here

Sent To: William Jobin & Joyce Jobin
Street and Apt. No: 49B Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage $ 3.94

JUL - 6 2015 Postmark Here

Sent To: Gerald & Betty Ann Jourdain
Street and Apt.: 48 Kienia Road
City, State, ZIP: Hudson, NH 03051

PS Form 3800

7015 0640 0005 2830 1620

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

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Sent To: Beverly D. Gagnon, Trustee
Street and Apt. No.: 41 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

JUL - 6 2015 Postmark Here

Sent To: Derek S. Lloyd & Caitlin M. Bulmer
Street and Apt. No.: 57 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: John M. Reis & Robin L. Reis
Street and Apt. No: 66B Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Kellie M. Carlin
Street and Apt. No: 37B Boyd Road
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Dawn M. Pilat & Louis A. Pilat
Street and Apt. No: 2 Marie Lane
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6

Sent To: Daniel & Janet Devlin
Street and Apt. No: 1 Marie Lane
City, State, ZIP+4: Hudson, NH 03051

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7015 0640 0005 2829 9729

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Public Service Company of NH
Street and Apt. N: C/O Tax Accounting
City, State, ZIP+4: PO Box 330
Manchester, NH 03105-0330

PS Form 3800,

7015 0640 0005 2830 1712

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Hector & Deborah Nault
Street and Apt. No: 45 Boyd Road
City, State, ZIP+4: Hudson, NH 03051

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7015 0640 0005 2830 1743

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here JUL - 6 2015

Sent To: Kyle & Melissa Labrecque
Street and Apt. No.: 29 Breakneck Road
City, State, ZIP+4®: Hudson, NH 03051

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage an $ 3.94

Postmark Here JUL - 6 2015

Sent To: Jerry & Bonnie Gage-Anderson
Street and Apt. N: 23 Breakneck Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800,

7015 0640 0005 2830 1564

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To: Sophie and Stanley Alukonis
Street and Apt. No: 123 Central Street
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Mario & Denyse Plante
Street and Apt. No: 9 Old Derry Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1606

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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Sent To: Jacques Savoie & Deborah A. H. Savoie
Street and Apt. No.: 24 David Drive
City, State, ZIP+4®: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1750

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To: Katherine Guilbeault and Lynwood Gilcreast
Street and Apt. No.: 42 Boyd Road
City, State, ZIP+4®: Hudson, NH 03051

PS Form 3800, A

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 2830 1576

Sent To: Gerald & Melissa Talty
Street and Apt. No.: 26 Bockes Road
City, State, ZIP+4®: Hudson, NH 03051

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage $ 3.94

Postmark Here

7015 0640 0005 2830 1590

Sent To: William & Gail Dion
Street and A: 19 David Drive
City, State,: Hudson, NH 03051

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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7015 0640 0005 2830 1613

Sent To: Dana A. Carson & Maria Carson
Street and Apt. No: 33 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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Sent To: Society for the Protection of New Hampshire Forests
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City, State, ZIP+4®: Concord, NH 03301

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Postage $ .49
Total Postage and $ 3.94

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7015 0640 0005 2830 1651

Sent To: Michael S. Carbonneau & Sherry M. Carbonneau
Street and Apt. N: 21 Lenny Lane
City, State, ZIP+4: Hudson, NH 03051

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7015 0640 0005 2830 1460

Sent To: Joseph E. Pietrowski & Denise Pietrowski
Street and Apt. N: 6B Lenny Lane
City, State, ZIP+: Hudson, NH 03051

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To: Angela L. Halliday & David R. Halliday
Street and Apt. No.: 11A Lenny Lane
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1644

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To: Terrance Martin
Street and Apt. No.: 15A Lenny Lane
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1491

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Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

Sent To: Shawn P. Murray & Dorothy G. Murray
Street and Apt. No.: 55 Kienia Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1507

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To: Richard E. Ventola
Street and Apt. No.: 49A Kienia Road
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

Sent To: Marlene Y. Dionne & Duane M. Dionne
Street and Apt. No.: 4 Hudson Park Drive
City, State, ZIP+4: Hudson, NH 03051

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

Sent To: Stephen R. Peebles & Danielle R. Peebles
Street and Apt. No.: 59B Kienia Road
City, State, ZIP+4: Hudson, NH 03051

PS Form 3800, A

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To
Street and Apt. No.
City, State, ZIP+4®

Robert & Payel Bharat Guibeault
5 Marie Lane
Hudson, NH 03051

PS Form 3800, A

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- ☐ Adult Signature Restricted Delivery $ ____

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Total Postage and Fees $ 3.94

Postmark Here

Sent To
Street and Apt. No.
City, State, ZIP+4®

Gregory & Kimberly Gush
50 Kienia Road
Hudson, NH 03051

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To
Street and Apt. No.
City, State, ZIP+4®

Mark Tello
37A Boyd Road
Hudson, NH 03051

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To
Street and Apt. No.
City, State, ZIP+4®

John Tamvaklis & Christine Tamvaklis
23 Glennon Avenue
Dracut, MA 01826-4406

PS Form 3800, A

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To
Street and Apt. No.
City, State, ZIP+4®

Chris C. Cowen
19 Breakneck Road
Hudson, NH 03051

PS Form 3800, A

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To
Street and Apt. No.
City, State, ZIP+4®

Christina M. Cates
66A Kienia Road
Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1446

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To Ralph W. Esburnett
Street and Apt. No. 34 Boyd Road
City, State, ZIP+4 Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1408

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here

Sent To Christopher & Tierney Chadwick
Street and Apt. No. 9 Breakneck Road
City, State, ZIP+4 Hudson, NH 03051

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7015 0640 0005 2830 1422

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To Aaron & Kari Brace
Street and Apt. No. 25 Breakneck Road
City, State, ZIP+4 Hudson, NH 03051

PS Form 3800, A

7015 0640 0005 2830 1439

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

Postmark Here JUL - 6 2015

Sent To Ernest R. Dupras, III
Street and Apt. No. 31 Breakneck Road
City, State, ZIP+4 Hudson, NH 03051

PS Form 3800,

7015 0640 0005 2830 1903

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- ☐ Adult Signature Restricted Delivery $

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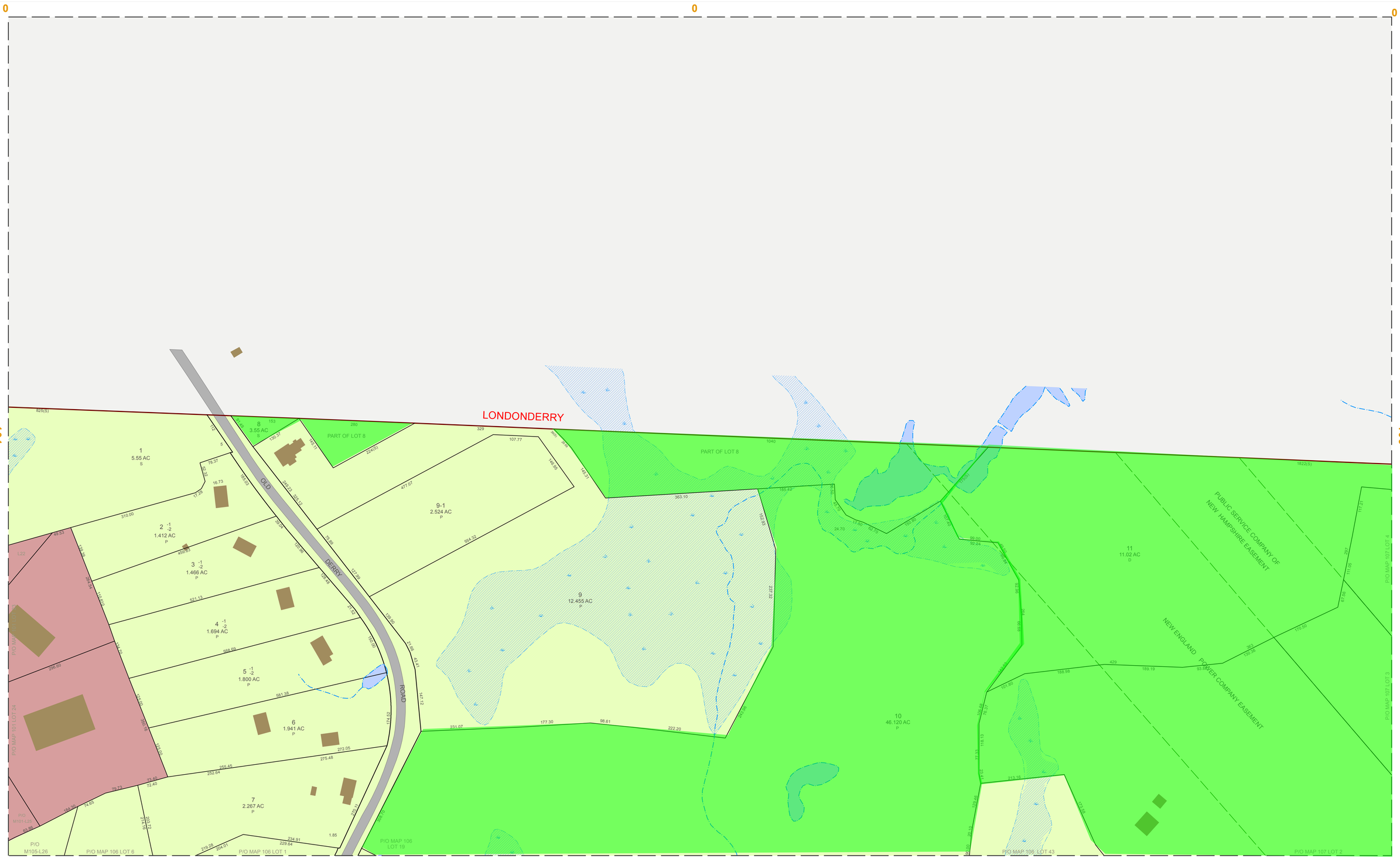
Sent To Town of Hudson
Street and Apt. No. 12 School Street
City, State, ZIP+4 Hudson, NH 03051

PS Form 3800, A



N

Town of Hudson, NH
12 School Street
Hudson, NH 03051

Town of Hudson, NH
April, 2011 Property Map

Data presented on this map is derived from numerous sources of varying scale. Information is presented for assessment purposes only and is not intended for property conveyance or legal description.

Parcel maps were digitized by East Coast Mapping from April, 1998 aerial photography. Annual updates are performed by Aerial Photo and Survey, Inc.

Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

Adjoining Sheet Number: 123

123
0.123 AC
S

- Parcel Number
- Parcel Acreage
- Parcel Information Source:
  - P = Recorded Plan
  - D = Recorded Deed
  - S = Map Scale Only
- Buildings
- Decks
- Pools
- Parcel Dimensions

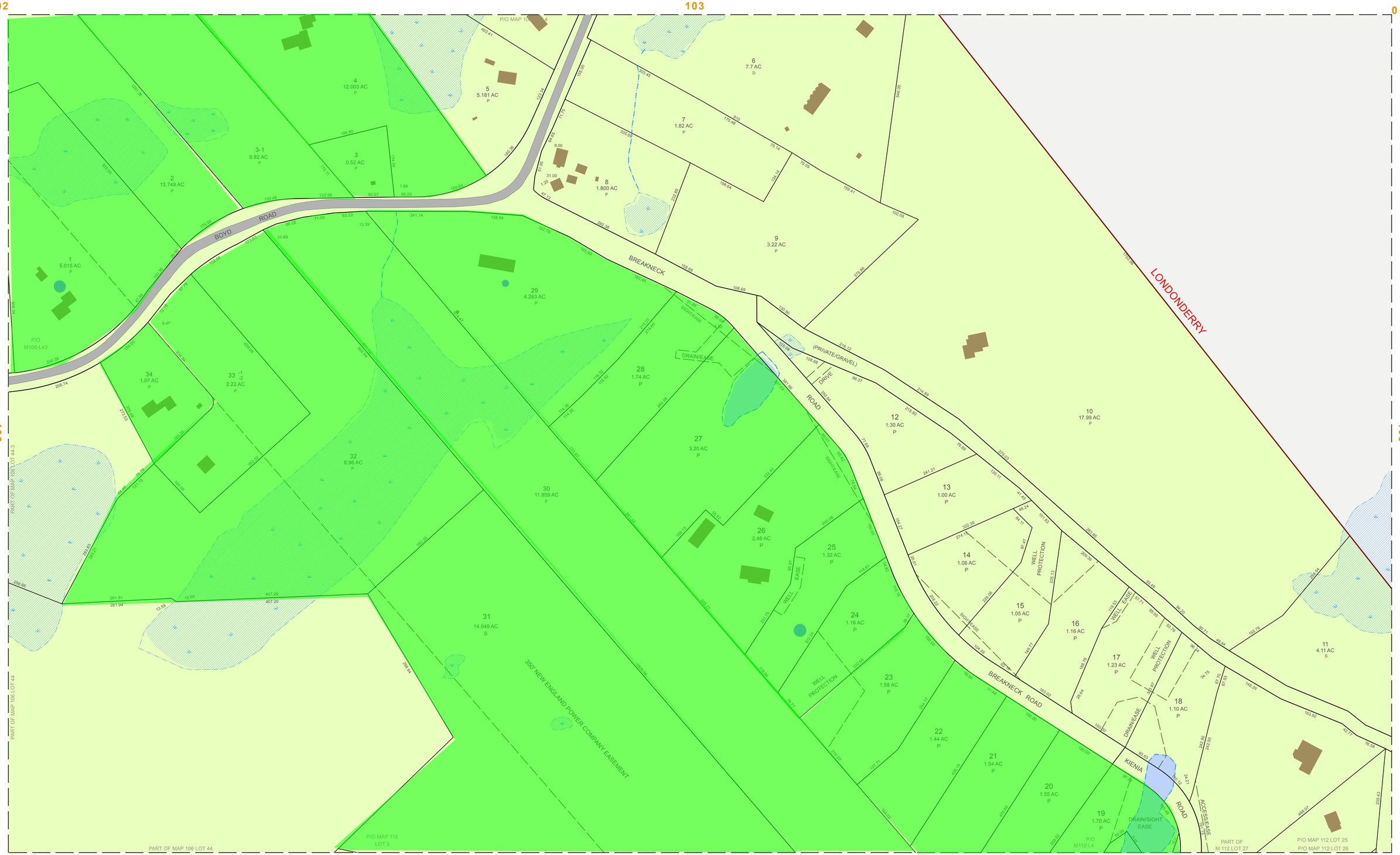
Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet

1 inch = 100 feet

Sheet 102



Town of Hudson, NH
April, 2011 Property Map

Town of Hudson, NH
12 School Street
Hudson, NH 03051

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Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

123 — Adjoining Sheet Number

123 — Parcel Number
0.123 AC — Parcel Acreage
S — Parcel Information Source: P = Recorded Plan, D = Recorded Deed, S = Map Scale Only
Buildings
Decks
Pools
123 — Parcel Dimensions

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 107

106 107 108

111 113

116 117 118

P/O MAP 106 LOT 44

P/O MAP 107 LOT 31

P/O MAP 107 LOT 30

P/O MAP 107 LOT 21

P/O MAP 107 LOT 20

P/O MAP 107 LOT 19

PART OF MAP 113 LOT 1

P/O MAP 111 LOT 18

P/O MAP 111 LOT 27

P/O MAP 117 LOT 1

P/O MAP 117 LOT 5

P/O MAP 117 LOT 6

P/O MAP 117 LOT 7

WELL PROTECTION

200' PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE EASE

NEW ENGLAND POWER COMPANY EASEMENT

350'

KIENIA ROAD

MARIE LANE

ROBINSON ROAD

1 4.754 AC S

2 15.22 AC P

3 36.88 AC D

4 -1 -2 5.00 AC P

5 -1 -2 7.63 AC P

6 3.573 AC P

7 2.947 AC P

8 1.5 AC P

9 1.067 AC P

10 1.137 AC P

11 1.288 AC P

12 1.160 AC P

13 1.027 AC P

14 1.230 AC P

15 2.86 AC P

16 -1 -2 2.85 AC P

17 1.70 AC P

18 1.79 AC P

19 1.551 AC P

20 1.506 AC P

21 -1 -2 1.483 AC P

22 1.500 AC P

23 -1 -2 1.492 AC P

24 1.51 AC P

25 -1 -2 1.67 AC P

26 2.179 AC P

27 3.04 AC P

Town of Hudson, NH
12 School Street
Hudson, NH 03051

Town of Hudson, NH
April, 2011 Property Map

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Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

Adjoining Sheet Number 123

123
0.123 AC
S

- Parcel Number
- Parcel Acreage
- Parcel Information Source: P = Recorded Plan, D = Recorded Deed, S = Map Scale Only
- Buildings
- Decks
- Pools
- Parcel Dimensions

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet

1 inch = 100 feet

Sheet 112

Town of Hudson, NH
April, 2011 Property Map

Town of Hudson, NH
12 School Street
Hudson, NH 03051

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Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

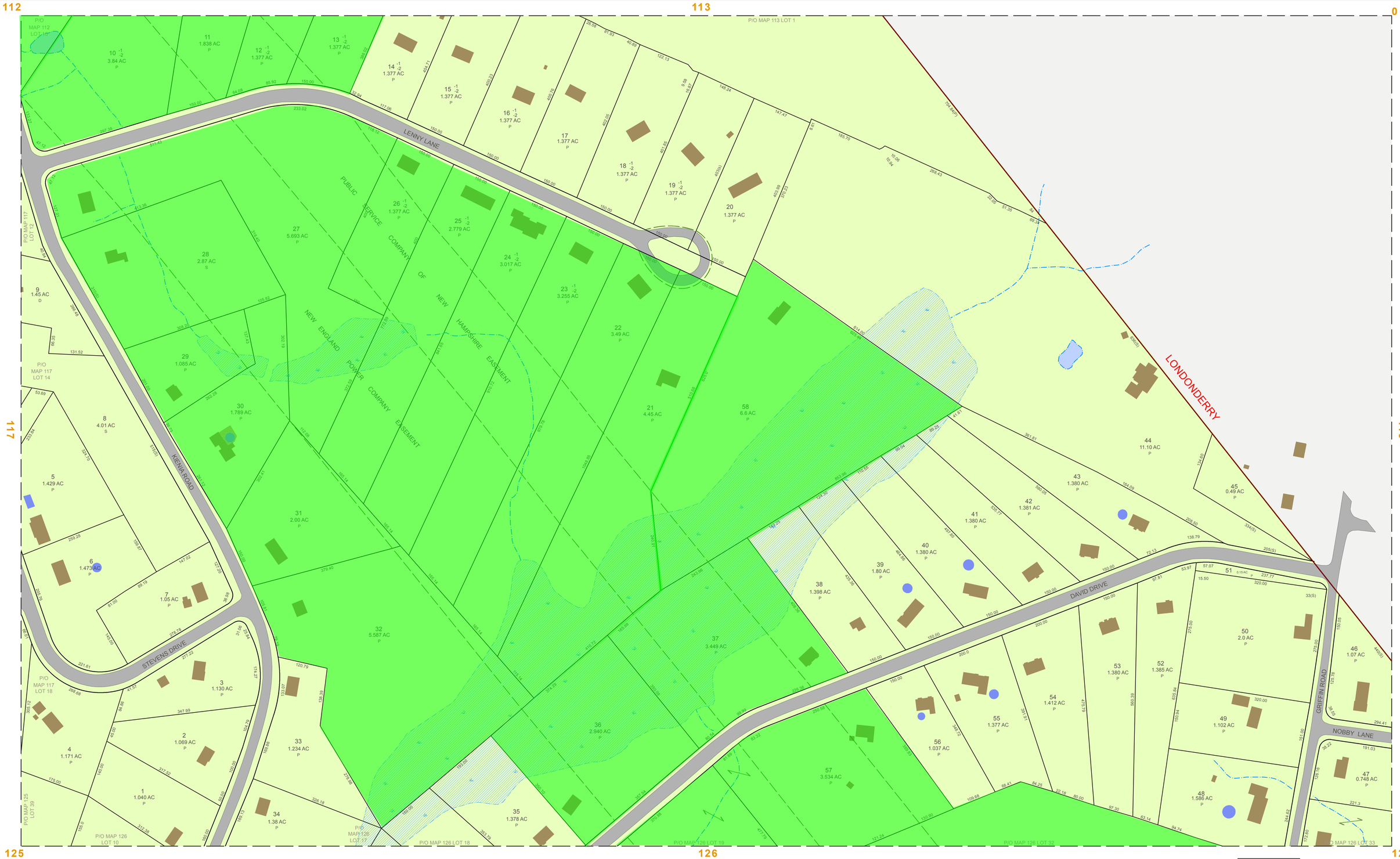
123 — Parcel Number
0.123 AC — Parcel Acreage
S — Parcel Information Source:
P = Recorded Plan
D = Recorded Deed
S = Map Scale Only
Buildings
Decks
Pools
123 — Parcel Dimensions
Adjoining Sheet Number — 123

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 113



Town of Hudson, NH
12 School Street
Hudson, NH 03051

Town of Hudson, NH
April, 2011 Property Map

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Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

Adjoining Sheet Number: 123

123
0.123 AC
S

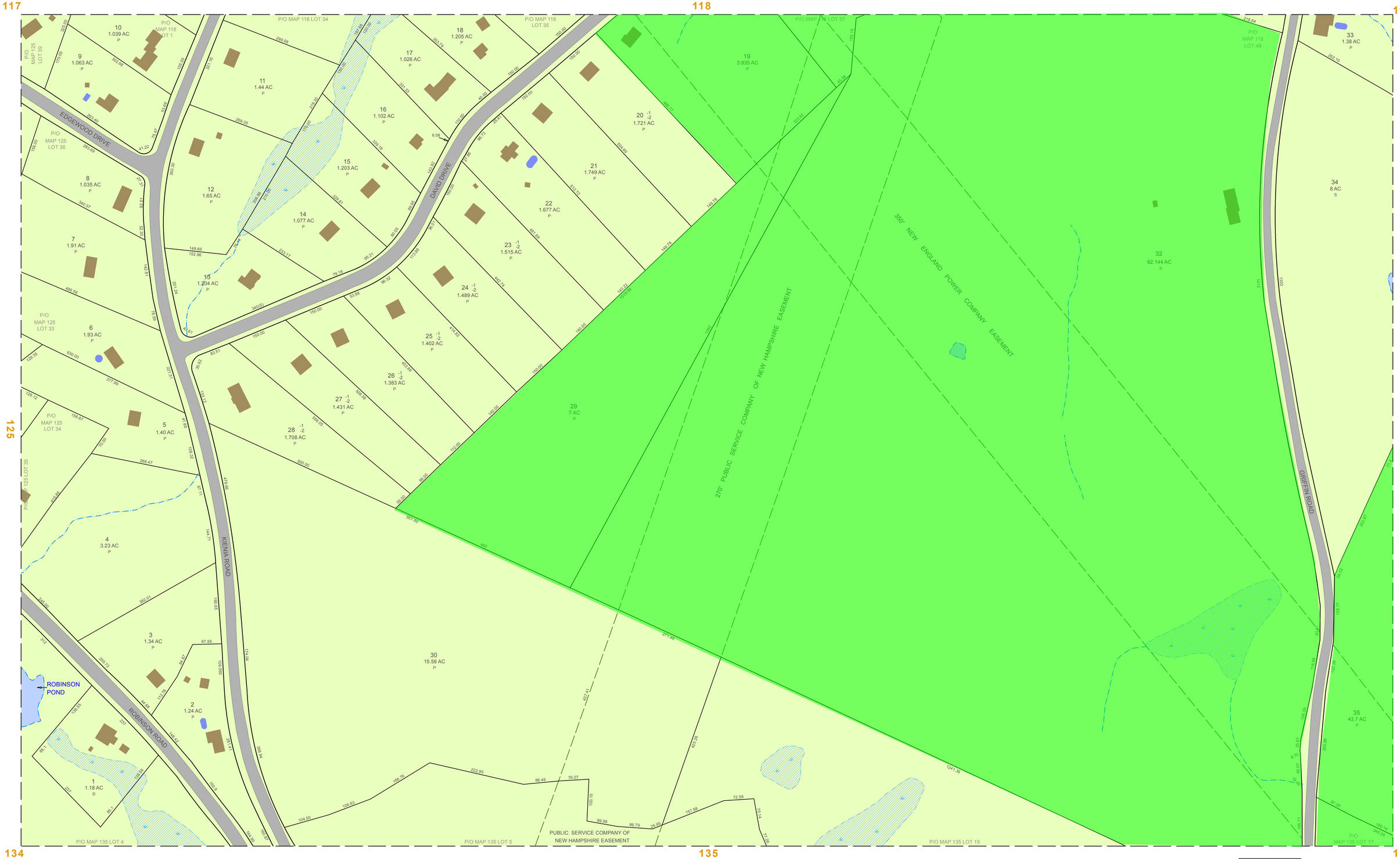
- Parcel Number
- Parcel Acreage
- Parcel Information Source: P = Recorded Plan, D = Recorded Deed, S = Map Scale Only
- Buildings
- Decks
- Pools
- Parcel Dimensions

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 118



Town of Hudson, NH
April, 2011 Property Map

Town of Hudson, NH
12 School Street
Hudson, NH 03051

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Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
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- Rivers or Streams
- Edge of Wetlands

123 — Adjoining Sheet Number

123
0.123 AC
S

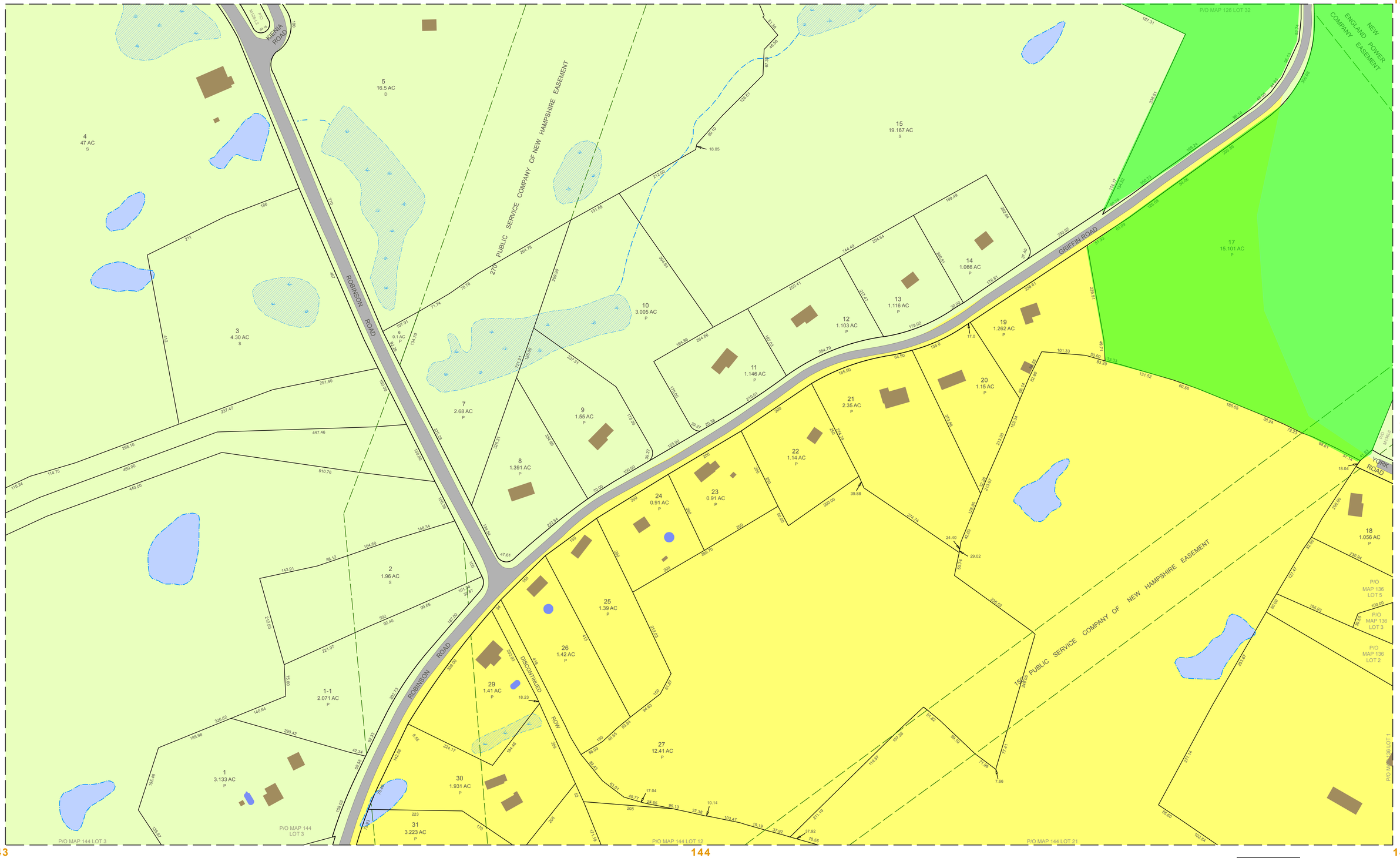
- Parcel Number
- Parcel Acreage
- Parcel Information Source: P = Recorded Plan, D = Recorded Deed, S = Map Scale Only
- Buildings
- Decks
- Pools
- 123 Parcel Dimensions

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 126



Town of Hudson, NH
12 School Street
Hudson, NH 03051

Town of Hudson, NH
April, 2011 Property Map

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- Private Rights of Way
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- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands

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123 — Parcel Number
0.123 AC — Parcel Acreage
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Buildings
Decks
Pools
123 — Parcel Dimensions

Zoning Districts

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- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 135

126 127 0

135 0

144 145 0

LONDONDERRY

WINDHAM

HOPKINS DRIVE

BOCKES ROAD

MCCRADY ROAD

YORK ROAD

CENTRAL STREET (ROUTE 111)

BEAVER BROOK

NEW ENGLAND POWER COMPANY EASEMENT

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE EASEMENT

P/O MAP 126 LOT 35

P/O MAP 135 LOT 17

P/O MAP 135 LOT 18

P/O MAP 127 LOT 2

P/O MAP 127 LOT 1

P/O MAP 127 LOT 7

P/O MAP 127 LOT 8

P/O MAP 145 LOT 3

P/O M127-L6

1 9.216 AC P
2 1.611 AC P
3 1.521 AC P
4 1.383 AC P
5 1.391 AC P
6 0.781 AC P
7 2.690 AC P
8 2.503 AC P
9 0.870 AC P
10 0.705 AC P
11 0.706 AC P
12 0.880 AC P
13 0.702 AC P
14 -1 -2 -3 1.771 AC P
15 -1 -2 1.033 AC P
16 0.919 AC P
17 0.919 AC P
18 1.836 AC P
19 0.768 AC P
20 1.18 AC P
21 0.732 AC P
22 0.948 AC P
23 0.854 AC P
24 0.691 AC P
25 1.26 AC P
26 1.05 AC P
27 1.171 AC P
28 3.208 AC S
30 1.062 AC P
31 3.116 AC P
32 1.548 AC P
33 5.225 AC P
34 1.03 AC S
35 5.00 AC P
36 5.00 AC P

Town of Hudson, NH
12 School Street
Hudson, NH 03051

Town of Hudson, NH
April, 2011 Property Map

Data presented on this map is derived from numerous sources of varying scale. Information is presented for assessment purposes only and is not intended for property conveyance or legal description.

Parcel maps were digitized by East Coast Mapping from April, 1998 aerial photography. Annual updates are performed by Aerial Photo and Survey, Inc.

Map Legend

- Public Rights of Way
- Private Rights of Way
- Paper Roads
- Side and Rear Lot Lines
- Easements
- Town Boundary
- Rivers or Streams
- Edge of Wetlands
- Adjoining Sheet Number: 123

123
0.123 AC
S

- Parcel Number
- Parcel Acreage
- Parcel Information Source: P = Recorded Plan, D = Recorded Deed, S = Map Scale Only
- Buildings
- Decks
- Pools
- Parcel Dimensions

Zoning Districts

- Business (B)
- General (G)
- General One (G-1)
- Industrial (I)
- Single Family Residential (R-1)
- Residential (R-2)
- Town Residence (TR)

0 50 100 200 300 400 Feet
1 inch = 100 feet

Sheet 136

Londonderry Tax Maps

Owner/Abutter List (Londonderry, New Hampshire)

All of the project work will occur within an existing utility right-of-way, thus abutters do not need to be notified. Below is a list of all properties within and directly adjacent to the project right-of-way. Notifications were sent to the property owners listed below. Properties located outside of the right-of-way are *italicized*.

Owner/Abutter	Tax Map Number (map-block-lot)	Mailing Address
	Tax Map 002	
Paul W. Schacht & Eileen M. Schacht	2-4	5 Dan Hill Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	2-4A	PO Box 330 Manchester, NH 03105-0330
Robert A. Decola & Myrna Lee Decola	*2-4-34*	*27 Severance Drive Londonderry, NH 03053*
Bonnie Edgerly	*2-4-35*	*29 Severance Drive Londonderry, NH 03053-3119*
Danielle E. Desmarais & Ryan N. Desmarais	*2-4-36*	*31 Severance Drive Londonderry, NH 03053-3119*
Glen J. Guilmet & Debra J. Guilmet	*2-4-37*	*33 Severance Drive Londonderry, NH 03053*
Peter J. Saile Revocable Trust Peter J. Saile, Grantor & Trustee	*2-4-38*	*25 Severance Drive Londonderry, NH 03053*
Wayland H. Elwood Amy Hills Ronald E. Lawrence	*2-22*	*54 Elwood Road Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	2-22A	PO Box 330 Manchester, NH 03105-0330
Wayland H. Elwood Amy Hills Ronald E. Lawrence	2-22B	54 Elwood Road Londonderry, NY 03053
Vigeant Family Properties LLC	2-25	5 Mockingbird Lane Hudson, NH 03051
Leonard A. Vigeant Revocable Trust Leonard A. & Jane M. Vigeant, Trustees	2-26	5 Mockingbird Lane Hudson, NH 03051
Hickory Woods LLC	2-27	15 Dartmouth Dr. Suite 102 Auburn, NH 03032
Peter J. Sapatis	2-28	5 Avery Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	2-28A	PO Box 330 Manchester, NH 03105-0330

William Tate	*2-28-10*	*76 Old Derry Road* *Hudson, NH 03051*
William Tate	*2-28-10-1*	*76 Old Derry Road* *Hudson, NH 03051*
Zane Dylan Sundquist	*2-28-11*	*275 Nashua Road* *Londonderry, NH 03053*
Linda K. & Douglass C. Harvey, Jr.	2-29	PO Box 639 Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	2-29A	PO Box 330 Manchester, NH 03105-0330
Stanley Realty Trust	*2-29B-8*	*7-E Taggart Drive* *Nashua, NH 03060*
Town of Londonderry	*2-30*	*268B Mammoth Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	2-30A	PO Box 330 Manchester, NH 03105-0330
Bruce Guttman & Filda R. Guttman	2-47	10 Dan Hill Road Londonderry, NH 03053
Dennis E. Amnott & Helen J. Amnott	2-48A	7 Dan Hill Road Londonderry, NH 03053
Ramon I. Hernandez & Marizel L. Quitongan	2-48-2	9 Dan Hill Road Londonderry, NH 03053
New England Power Company C/O Property Tax Division	2-50	40 Sylvan Road Waltham, MA 02451-2286
	Tax Map 003	
Brian J. Goodchild & Jennifer D. Goodchild	*3-181-13*	*24 Ridgemont Drive* *Londonderry, NH 03053*
Town of Londonderry	*3-181-24*	*268B Mammoth Road* *Londonderry, NH 03053*
	Tax Map 005	
Patrick E. Muse & Lisa A. Muse	5-15-4	6 Watercrest Drive Londonderry, NH 03053
Eric J. Plummer	5-16	200 Pillsbury Road Londonderry, NH 03053
Eric J. Plummer	5-16A	200 Pillsbury Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	5-16B	PO Box 330 Manchester, NH 03105-0330

Town of Londonderry	5-17	268B Mammoth Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	5-17A	PO Box 330 Manchester, NH 03105-0330
Robert L. McIntosh & Jill M. McIntosh	5-18-1	1 Colonial Drive Londonderry, NH 03053-2564
Owen D. Finnegan & Karen M. Finnegan	5-18-2	3 Colonial Drive Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	5-19A	PO Box 330 Manchester, NH 03105-0330
Roland Flores & Aline J. Flores	*5-19-1*	*13 Colonial Drive* *Londonderry, NH 03053*
Alan D. Schirch & Jane M. Schirch	5-19-2	15 Colonial Drive Londonderry, NH 03053
Mark A. Leach & Colleen C. Leach	5-19-3	17 Colonial Drive Londonderry, NH 03053
Lawrence P. Moffett & Debbie A. Moffett	5-19-4	19 Colonial Drive Londonderry, NH 03053
Robert S. & Marcia L. Feldmann	5-19-5	21 Colonial Drive Londonderry, NH 03053
Patrick G. Botz & Kimberly M. Botz	5-19-6	23 Colonial Drive Londonderry, NH 03053
M & P Murphy Family Revocable Trust Martin J. & Patricia I. Murphy, Successors, Trustees	5-19-7	25 Colonial Drive Londonderry, NH 03053
Carbone Family Trust Kim A. Carbone, Trustee	5-19-8	27 Colonial Drive Londonderry, NH 03053
Daniel J. Hurley Jr. & Annette Hurley	5-19-9	29 Colonial Drive Londonderry, NH 03053
John J. Briere & Debra L. Briere	5-19-10	31 Colonial Drive Londonderry, NH 03053
John J. Burke & Barbara A. Burke	5-19-11	33 Colonial Drive Londonderry, NH 03053
Gregory R. Sorrell & Ann T. Sorrell	5-19-12	35 Colonial Drive Londonderry, NH 03053
Bart N. Quirinale	5-19-14	5 Hancock Drive Londonderry, NH 03053
Nicolas Sabino	5-19-15	10 Hancock Drive Londonderry, NH 03053
Wayland H. Elwood & Pauline D. Elwood	5-39	54 Elwood Road Londonderry, NH 03053

Wayland H. Elwood & Pauline D. Elwood	5-40	54 Elwood Road Londonderry, NH 03053
Charles J. Fuller, Jr. & Cherie A. Fuller	*5-40-6*	*42 Elwood Road* *Londonderry, NH 03053*
Thomas D. Agrella & Michelle E. Agrella	5-40-13	46 Elwood Road Londonderry, NH 03053
Paul W. Schacht, Jr. & Maria S. Schacht	5-40-14	PO Box 588 Londonderry, NH 03053
Sunnycrest Farm, Incorporated	5-41	59 High Range Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	5-41A	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	5-42	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	5-49-4	PO Box 330 Manchester, NH 03105-0330
Steven C. Sanders & Sheila A. Sanders	*5-49-23*	*4 Cedar Lane* *Londonderry, NH 03053*
Scott T. Miller & Maureen A. Miller	*5-49-24*	*3 Cedar Lane* *Londonderry, NH 03053*
Marie A. Parker & Benjamin E. Parker	*5-49-26*	*26 Anthony Drive* *Londonderry, NH 03053*
Properties Inc. c/o Public Service Co. of NH	5-52	PO Box 330 Manchester, NH 03105-0330
David Wl. Barthelmes & Barbara E. Barthelmes	*5-52-28*	*10 Jason Drive* *Londonderry, NH 03053*
Wang Family Trust *Pat Y. Wang & Cynthia V. Wang, Trustees*	*5-52-34*	*7 Jason Drive* *Londonderry, NH 03053*
Joshua D. Dion & Amy E. Dion	*5-52-36*	*5 Shadow Ridge Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	5-55	PO Box 330 Manchester, NH 03105-0330
Town of Londonderry	5-71	268B Mammoth Road Londonderry, NH 03053

Tax Map 008

Public Service Company of NH C/O Tax Accounting	8-6A	PO Box 330 Manchester, NH 03105-0330
Angela M. Jehlicka	8-6-8	225 High Range Road Londonderry, NH 03053

George F. Butler & Charlotte C. Butler	8-6-9	217 High Range Road Londonderry, NH 03053
Leo J. Roy & Karen L. Roy	8-6-40	31 Mayflower Drive Londonderry, NH 03053
Angela Hughes Ruth & Bruce Hughes	8-6-41	1 Chestnut Hill Drive Londonderry, NH 03053
Scott A. Parisi & Tara J. Parisi	8-6-42	3 Chestnut Hill Drive Londonderry, NH 03053
Robert Reynolds Revocable Trust 2013 RE., K. Lownds-Reynolds Revocable Trust 2013 L.	8-6-43	5 Chestnut Hill Drive Londonderry, NH 03053
Robert G. Breithaupt & Bonnie V. Breithaupt	8-6-44	7 Chestnut Hill Drive Londonderry, NH 03053
Bruce Leavitt & Sherry B. Leavitt	8-6-45	9 Chestnut Hill Drive Londonderry, NH 03053
Richard G. Kenny & Silvia L. Kenny	8-6-46	11 Chestnut Hill Drive Londonderry, NH 03053
Sara E. Blanch	8-6-47	13 Chestnut Hill Drive Londonderry, NH 03053
Kenneth H. Birdsall & Brenda N. Birdsall	8-6-48	15 Chestnut Hill Drive Londonderry, NH 03053
Albert W. Sheldon & Hazel L. Sheldon	8-6-49	17 Chestnut Hill Drive Londonderry, NH 03053
Rodney B. Wright & Julia Wright	8-6-50	19 Chestnut Hill Drive Londonderry, NH 03053
Brian J. Pinelle & Jody A. Pinelle	8-6-51	21 Chestnut Hill Road Londonderry, NH 03053
Dona E. Solmon	8-6-52	12 Hickory Hill Drive Londonderry, NH 03053
Andrew J. McSpiritt & Bonnie J. McSpiritt	8-6-94	215 High Range Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	8-17-B	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	8-17-C	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	8-17-D	PO Box 330 Manchester, NH 03105-0330
Town of Londonderry	8-22	268B Mammoth Road Londonderry, NH 03053
Etal Miller, c/o Barbara Ann Miller	*8-23*	*6991 Allen Road* *Parkdale, OR 97041*

Kurt W. Hinxman & Cynthia A. Hinxman	*8-23A*	*48 Mayflower Drive* *Londonderry, NH 03053*
Mark A. Brockelman & Rebecca F.E. Brockelman	*8-23A-1*	*46 Mayflower Drive* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	8-23B	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	8-23C	PO Box 330 Manchester, NH 03105-0330
Hayford Kimball Lumber Co.	8-23D	46 Raintree Drive Londonderry, NH 03053
Patricia B. Hamann Revocable Trust Patricia B. Hamann, Grantor & Trustee	8-23-5	35 Royal Lane Londonderry, NH 03053
Destry Ward & Marie Ward	8-23-6	37 Royal Lane Londonderry, NH 03053
Robert D. Steibing	8-23-7	39 Royal Lane Londonderry, NH 03053
James J. Dimare & Rosanne M. Dimare	8-23-8	41 Royal Lane Londonderry, NH 03053
June L. McNeil	8-23-9	43 Royal Lane Londonderry, NH 03053
Town of Londonderry	*8-24*	*268B Mammoth Road* *Londonderry, NH 03053*

Tax Map 009

Michael S. Noone, Jr.	*9-1-15*	*208 High Range Road* *Londonderry, NH 03053*
David R. Trenner	*9-1-16*	*4 Shasta Drive* *Londonderry, NH 03053*
Robert S. & Cheryl A. White	*9-1-17*	*6 Shasta Drive* *Londonderry, NH 03053*
Glenn E. & Jeananne McCaffrey	*9-1-18*	*8 Shasta Drive* *Londonderry, NH 03053*
Paul R. & Katherine O. Fanning	*9-1-19*	*10 Shasta Drive* *Londonderry, NH 03053*
Susan A. Bull Revocable Trust *Susan A. Bull, Trustee*	*9-1-20*	*12 Shasta Drive* *Londonderry, NH 03053*
Christopher L. & Antoinette Hand	*9-1-21*	*14 Shasta Drive* *Londonderry, NH 03053-3009*
Jonathan R. & Kristin R. Mullen	*9-1-22*	*16 Shasta Drive* *Londonderry, NH 03053*

Lee S. Rogers	*9-1-23*	*18 Shasta Drive* *Londonderry, NH 03053*
John A. & Andrea E. Tejada	*9-1-24*	*20 Shasta Drive* *Londonderry, NH 03053*
David A. & Judith A. Larochelle	*9-1-25*	*22 Shasta Drive* *Londonderry, NH 03053-3009*
Joseph N. Naso & Cheryl A. Naso	9-1-46	206 High Range Road Londonderry, NH 03053
Gary R. Kimball & Pamela G. Kimball	*9-1-56*	*35 Heritage Lane* *Londonderry, NH 03053*
Richard McLaughlin	*9-1-57*	*34 Heritage Lane* *Londonderry, NH 03053*
James G. & Delia M. Carter	*9-1-58*	*1301 Redmore Ct.* *Severn, MD 21144*
Town of Londonderry	9-8A	268B Mammoth Road Londonderry, NH 03053
Kenneth S. Bell & Sue E. Bell	*9-8-1*	*3613 Baird Drive* *Edmond, OK 73013-6332*
Lyons Family Trust *David S. & Karen S. Lyons, Trustees*	*9-8-2*	*23 Davis Drive* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	9-12A	PO Box 330 Manchester, NH 03105-0330
Kevin J. Flaherty Jr., & Allison B. Flaherty	*9-12-38*	*10 Wheelwright Cir.* *Londonderry, NH 03053*
Matthew & Krista A. Fitzgerald	*9-12-39*	*9 Wheelwright Cir.* *Londonderry, NH 03053*
Matthew St. Gelais & Faith Isabelle	*9-12-48*	*6 Danbury Ct* *Londonderry, NH 03053-2447*
William F. & Barbara A. Mee	*9-12-49*	*62 Shasta Drive* *Londonderry, NH 03053*
Michelle M. Meuse	*9-12-50*	*68 Shasta Drive* *Londonderry, NH 03053*
John J. & Deana M. Delvecchio	*9-12-60*	*11 Wheelwright Cr* *Londonderry, NH 03053*
Karen M. Rines & Michael T. Casey	*9-12-61*	*12 Wheelwright Cr* *Londonderry, NH 03053*
Town of Londonderry	9-12-62	268B Mammoth Road Londonderry, NH 03052
Shasta Realty LLC	9-17-1	8 Raven Terrace Londonderry, NH 03053

Tara K. Muise	*9-23*	*346 Mammoth Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	9-23A	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	9-24	PO Box 330 Manchester, NH 03105-0330
Michael A. Bolis & Densil Bolis	9-25	332 Mammoth Road Londonderry, NH 03053
Thomas J. Pajak & Sandra L. Pajak	9-26	333 Mammoth Road Londonderry, NH 03053
David W. Fletcher & Susan E. Fletcher	9-77-8	13 Darrow Way Londonderry, NH 03053
MaryAnne T. Peikert	9-77-11	28 Otterson Road Londonderry, NH 03053
Alfred H. Elliott & Pauline Elliott	*9-80*	*61 Hardy Road* *Londonderry, NH 03053*
Jimmy Lebel & Jennifer L. Lebel	9-81	39 Bancroft Road Londonderry, NH 03053
Joshua K. Massi & Lesvia R. Massi	9-81A	37 Bancroft Road Londonderry, NH 03053
Francis McCann & Cynthia E. McCann	9-82	28 Bancroft Road Londonderry, NH 03053
CSR Realty Trust Linda J. Price, Trustee	9-83-1	12 Bancroft Road Londonderry, NH 03053
Maryann Ryan Revocable Trust Maryann Ryan, Trustee	9-83-17	24 King Henry Drive Londonderry, NH 03053
Daniel B. Crane & Emily H. Crane	9-83-18	25 King Henry Drive Londonderry, NH 03053-2845
Jean Theresa Meyers	9-84	31 Bancroft Road Londonderry, NH 03053
Tax Map 012		
Phillip R. Spitalere	12-48	17 Bancroft Road Londonderry, NH 03053
Diamond Edge Realty & Development LLC	12-138	12 Murphy Drive Nashua, NH 03062
John A. Morrison Revocable Trust *John A. Morrison, Trustee*	*12-139*	*94 Hardy Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	12-139A	PO Box 330 Manchester, NH 03105-0330

Town of Londonderry	12-139B	268B Mammoth Road Londonderry, NH 03053
Ralph A. Fogarty *Margaret M. Marrigan*	*12-140*	*81 Hardy Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	12-140-1	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	12-141	PO Box 330 Manchester, NH 03105-0330
Parish Hills Condo Association c/o Pater Real Estate	12-143C	82 West Broadway Derry, NH 03038
Alfred H. Elliott & Pauline Elliott	12-143-1	61 Hardy Road Londonderry, NH 03053
Stephen R. Lievens Revocable Trust Stephen R. Lievens, Trustee	12-143-2	2 West Parish Drive Londonderry, NH 03053

Tax Map 013

Michael Tager & Denise Tager	13-7-1	91 Hovey Road Londonderry, NH 03053
Candice E. McGrath Paul Palazzolo	13-7-6	27 Judy Drive Londonderry, NH 03053
Maley-Roy Family Revocable Trust Joseph R. Roy & Andrea L. Maley, Trustees	13-7-8	25 Judy Drive Londonderry, NH 03053
Mark D. Young & Linda A. Young	13-7-10	23 Judy Drive Londonderry, NH 03053
Debra M. Durning	13-7-12	21 Judy Drive Londonderry, NH 03053
Brenton E. Clark & Kathleen Clark	*13-8-1*	*94 Hovey Road* *Londonderry, NH 03053*
Public Service Company of NH C/O Tax Accounting	13-10	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-11	PO Box 330 Manchester, NH 03105-0330
Ronald P. Chapdelaine & Cynthia L. Chapdelaine	*13-11-1*	*106 Hovey Road* *Londonderry, NH 03053-2935*
Public Service Company of NH C/O Tax Accounting	13-12	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-13	PO Box 330 Manchester, NH 03105-0330
State of NH Department of Public Works & Highways	13-14	85 Loudon Road Concord, NH 03301

Public Service Company of NH C/O Tax Accounting	13-56	PO Box 330 Manchester, NH 03105-0330
State of NH Department of Public Works & Highways	13-57	85 Loudon Road Concord, NH 03301
Francis P. Rich	*13-60*	*3 Parsons Avenue* *Saugus, MA 01906*
Public Service Company of NH C/O Tax Accounting	13-60A	PO Box 330 Manchester, NH 03105-0330
James Stopherd & Irene T. Stopherd	*13-63*	*55 Rockingham Road* *Londonderry, NH 03053-0424*
Garett M. Liddell	*13-64*	*62 Fox Hill Lane* *Norwell, MA 02061*
Public Service Company of NH C/O Tax Accounting	13-64A	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-65	PO Box 330 Manchester, NH 03105-0330
39 Rockingham Road LLC	13-65-1	39 Rockingham Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	13-68	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-69	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-70	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-70A	PO Box 330 Manchester, NH 03105-0330
Paul R. & Lisa Lind	*13-71-1*	*2 Season Lane* *Londonderry, NH 03053*
Carole A. Connolly *Jamie E. Connolly Parker*	*13-71-3*	*6 Seasons Lane* *Londonderry, NH 03053*
David Pike & Sharon A. Pike	*13-71-7*	*8 Seasons Lane* *Londonderry, NH 03053*
Richard C. Schillbach & Deborah L. Schillbach	*13-71-9*	*10 Seasons Lane* *Londonderry, NH 03053*
Sean H. Charles & Ivy Charles	*13-71-11*	*12 Seasons Lane* *Londonderry, NH 03053*
William M. Dufton *Judith Ann McNeil*	*13-71-12*	*14 Seasons Lane* *Londonderry, NH 03053*
William M. Prizer, III *Jacqueline Prizer*	*13-71-13*	*378 Main Street* *Nashua, NH 03060*

Shiv C. Tasker & Monisha S. Tasker	*13-71-15*	*336 Boston Post Road* *Weston, MA 02493*
Charles T. Wilkes	*13-71-16*	*20 Seasons Lane* *Londonderry, NH 03053*
Johnson Family Realty Revocable Trust *Gary W. Johnson, Sr. & Sharon L. Johnson, Trustees*	*13-71-62*	*11 Snowflake Lane* *Londonderry, NH 03053*
John M. Sturges & Mary L. Sturges	*13-71-63*	*12 Snowflake Lane* *Londonderry, NH 03053*
Nicholas C. Covatis & Kathleen L. Covatis	*13-71-64*	*10 Snowflake Lane* *Londonderry, NH 03053*
Scott E. Benson & Sarah J. Benson	*13-71-65*	*8 Snowflake Lane* *Londonderry, NH 03053*
Irving E. Taylor & Diane Waller	*13-102*	*22 Rockingham Road* *Londonderry, NH 03053*
PLH-Londonderry LLC	*13-104-1*	*PO Box 498* *Jaffrey, NH 03452*
Gizmo Enterprises LLC	*13-104-2*	*PO Box 1316* *Londonderry, NH 03053-1316*
B-Saini Group LLC	*13-105*	*428 Main Street, Apt. 2* *Haverhill, MA 01830*
Public Service Company of NH C/O Tax Accounting	13-105A	PO Box 330 Manchester, NH 03105-0330
Patrick A. Mastrola & Lois A. Mastrola	*13-106-1*	*95 Scobie Pond Road* *Derry, NH 03038*
Highwood Cold Storage LLC	13-108	6 Rockingham Road Londonderry, NH 03053
Public Service Company of NH C/O Tax Accounting	13-110	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-111	PO Box 330 Manchester, NH 03105-0330
Public Service Company of NH C/O Tax Accounting	13-111-1	PO Box 330 Manchester, NH 03105-0330
Andrew J. Schuman *Virginia A. Mason-Schuman*	*13-142-8*	*PO Box 855* *Londonderry, NH 03053*
Brendan M. Fennessey & Erin M. Fennessey	*13-142-11*	*13 Judy Drive* *Londonderry, NH 03053*
Mark A. Berglund & Denise A. Berglund	*13-142-12*	*15 Judy Drive* *Londonderry, NH 03053*
David Thompson & Dorothy Thompson	*13-142-13*	*17 Judy Drive* *Londonderry, NH 03053*

Ryan J. Guilfoyle	*13-142-14*	*19 Judy Drive* *Londonderry, NH 03053*
State of NH Department of Transportation	13-143	PO Box 483 Concord, NH 03301-0483

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: State of NH Department of Public Works & Highways
Street and Apt. No.: 85 Loudon Road
City, State, ZIP+4®: Concord, NH 03301

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7015 0640 0005 2830 2504

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: State of New Hampshire
Street and Apt. No.: Department of Transportation
City, State, ZIP+4®: PO Box 483
Concord, NH 03301-0483

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7015 0640 0005 9531 6282

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: PLH-Londonderry LLC
Street and Apt. No.: PO Box 498
City, State, ZIP+4®: Jaffrey, NH 03452

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7015 0640 0005 9531 6275

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To: Patrick A. Mastrola & Lois A. Mastrola
Street and Apt. No.: 95 Scobie Pond Road
City, State, ZIP+4®: Derry, NH 03038

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7015 0640 0005 9531 5957

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

JUL - 6 2015 Postmark Here

Sent To: Glen J. Guilmet & Debra J. Guilmet
Street and Apt. No.: 33 Severance Drive
City, State, ZIP+4®: Londonderry, NH 03053

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7015 0640 0005 9531 5964

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

JUL - 6 2015 Postmark Here

Sent To: Robert A. Decola & Myrna Lee Decola
Street and Apt. No.: 27 Severance Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6213

Sent To David Wl. Barthelmes & Barbara E. Barthelmes
Street and Apt. No., 10 Jason Drive
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6220

Sent To Steven C. Sanders & Sheila A. Sanders
Street and Apt. No., 4 Cedar Lane
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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6190

Sent To Angela Hughes
Street and Apt. No., Ruth & Bruch Hughes
City, State, ZIP+4® 1 Chestnut Hill Drive
Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6206

Sent To Angela M. Jehlicka
Street and Apt. No., 225 High Range Road
City, State, ZIP+4® Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6176

Sent To Sara E. Blanch
Street and Apt. No., 13 Chestnut Hill Drive
City, State, ZIP+4® Londonderry, NH 03053

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 6183

Sent To Robert G. Breithaupt & Bonnie V. Breithaupt
Street and Apt. No. 7 Chestnut Hill Drive
City, State, ZIP+4® Londonderry, NH 03053

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7015 0640 0005 9531 6152

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

Sent To: Andrew J. McSpiritt & Bonnie J. McSpiritt
Street and Apt. No.: 215 High Range Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Rodney B. Wright & Julia Wright
Street and Apt. No.: 19 Chestnut Hill Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Total Postage and Fees $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 JUL - 6 2015 Here USPS

Sent To: Destry Ward & Marie Ward
Street and Apt. No.: 37 Royal Lane
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Mark A. Brockelman & Rebecca F.E. Brockelman
Street and Apt. No.: 46 Mayflower Drive
City, State, ZIP+4®: Londonderry, NH 03053

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7015 0640 0005 9531 6114

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Postage $ .49
Total Postage and Fees $ 3.94

MANCHESTER NH BEDFORD BRANCH 03110 Postmark JUL - 6 2015 Here USPS

Sent To: Robert S. & Cheryl A. White
Street and Apt. No.: 6 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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7015 0640 0005 9531 6121

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Postage $ .49
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Sent To: June L. McNeil
Street and Apt. No.: 43 Royal Lane
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fr $ 3.94

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Sent To: Lee S. Rogers
Street and Apt. No.,: 18 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Susan A. Bull Revocable Trust
Susan A. Bull, Trustee
Street and Apt. No.,: 12 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and $ 3.94

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Sent To: James G. & Delia M. Carter
Street and Apt. No.: 1301 Redmore Ct.
City, State, ZIP+4®: Severn, MD 21144

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Joseph N. Naso & Cheryl A. Naso
Street and Apt. No.,: 206 High Range Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
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Sent To: William F. & Barbara A. Mee
Street and Apt. No.,: 62 Shasta Drive
City, State, ZIP+4®: Londonderry, NH

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Postage $ .49
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Sent To: Kevin J. Flaherty, Jr. & Allison B. Flaherty
Street and Apt. N: 10 Wheelwright Cir.
City, State, ZIP+4: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To Karen M. Rines & Michael T. Casey
Street and Apt. No., 12 Wheelwright Cir.
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49
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Sent To Michael A. Bolis & Densil Bolis
Street and Apt. No., 332 Mammoth Road
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To Ryan J. Guilfoyle
Street and Apt. No., 19 Judy Drive
City, State, ZIP+4® Londonderry, NH 03053

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

7015 0640 0005 9531 6497

Sent To Brendan M. Fennessey & Erin M. Fennessey
Street and Apt. No., 13 Judy Drive
City, State, ZIP+4® Londonderry, NH 03053

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- ☐ Adult Signature Required $ ____
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Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

7015 0640 0005 9531 6428

Sent To MaryAnne T. Peikert
Street and Apt. No., 28 Otterson Road
City, State, ZIP+4® Londonderry, NH 03053

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- ☐ Adult Signature Required $ ____
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Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here JUL - 6 2015

7015 0640 0005 9531 6299

Sent To Nicholas C. Covatis & Kathleen L. Covatis
Street and Apt. No., 10 Snowflake Lane
City, State, ZIP+4® Londonderry, NH 03053

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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here JUL -6 2015

Sent To: Maryann Ryan Revocable Trust
Street and Apt. No.: Maryann Ryan, Trustee
City, State, ZIP+4®: 24 King Henry Drive
Londonderry, NH 03053

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- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

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Sent To: Joshua K. Massi & Lesvia R. Massi
Street and Apt. No.: 37 Bancroft Road
City, State, ZIP+4®: Londonderry, NH 03053

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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

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Sent To: Ralph A. Fogarty
Street and Apt. No.: Margaret M. Marrigan
City, State, ZIP+4®: 81 Hardy Road
Londonderry, NH 03053

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- Certified Mail Restricted Delivery $
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- Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here JUL -6 2015

Sent To: Phillip R. Spitalere
Street and Apt. No.: 17 Bancroft Road
City, State, ZIP+4®: Londonderry, NH 03053

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- Adult Signature Required $
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Sent To: Maley-Roy Family Revocable Trust
Street and Apt. No.: Joseph R. Roy & Andrea L. Maley, Trustees
City, State, ZIP+4®: 25 Judy Drive
Londonderry, NH 03053

PS Form 3800, Ap

7015 0640 0005 9531 6367

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- Adult Signature Restricted Delivery $

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Sent To: Stephen R. Lievens Revocable Trust
Street and Apt. No.: Stephen R. Lievens, Trustee
City, State, ZIP+4®: 2 West Parish Drive
Londonderry, NH 03053

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7015 0640 0005 9531 6374

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Sent To Francis P. Rich
Street and Apt. No., 3 Parsons Avenue
City, State, ZIP+4® Saugus, MA 01906

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Sent To Brenton E. Clark & Kathleen Clark
Street and Apt. No., 94 Hovey Road
City, State, ZIP+4® Londonderry, NH 03053

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Sent To David Pike & Sharon A. Pike
Street and Apt. No., 8 Seasons Lane
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Sent To 39 Rockingham Road LLC
Street and Apt. No., 39 Rockingham Road
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7015 0640 0005 9531 6305

Sent To Charles T. Wilkes
Street and Apt. No., 20 Seasons Lane
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7015 0640 0005 9531 6312

Sent To William M. Dufton
Judith Ann McNeil
Street and Apt. No., 14 Seasons Lane
City, State, ZIP+4® Londonderry, NH 03053

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Sent To: Dennis E. Amnott & Helen J. Amnott
Street and Apt. No.: 7 Dan Hill Road
City, State, ZIP+4: Londonderry, NH 03053

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Sent To: Peter J. Saile Revocable Trust
Street and Apt. No.: Peter J. Saile, Grantor & Trustee
City, State, ZIP+4: 25 Severance Drive
Londonderry, NH 03053

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7015 0640 0005 2829 9422

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- Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

JUL - 6 2015 Postmark Here

Sent To: Owen D. Finnegan & Karen M. Finnegan
Street and Apt. No.: 3 Colonial Drive
City, State, ZIP+4: Londonderry, NH 03053

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7015 0640 0005 2829 9453

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Sent To: Stanley Realty Trust
Street and Apt. No.: 7-E Taggart Drive
City, State, ZIP+4: Nashua, NH 03060

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Sent To: Wang Family Trust
Street and Apt. No.: Pat Y. Wang & Cynthia V. Wang, Trustees
City, State, ZIP+4: 7 Jason Drive
Londonderry, NH 03053

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7015 0640 0005 2829 9439

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Patrick E. Muse & Lisa A. Muse
Street and Apt. No.: 6 Watercrest Drive
City, State, ZIP+4: Londonderry, NH 03053

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7015 0640 0005 2829 9415

Sent To Mark A. Leach & Colleen C. Leach
Street and Apt. No. 17 Colonial Drive
City, State, ZIP+4 Londonderry, NH 03053

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Postage $.49
Total Postage and Fees $3.94

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7015 0640 0005 2829 9408

Sent To Patrick G. Botz & Kimberly M. Botz
Street and Apt. No. 23 Colonial Drive
City, State, ZIP+4 Londonderry, NH 03053

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Total Postage and Fees $3.94

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7015 0640 0005 2829 9392

Sent To Daniel J. Hurley Jr. & Annette Hurley
Street and Apt. No. 29 Colonial Drive
City, State, ZIP+4 Londonderry, NH 03053

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Total Postage and Fees $3.94

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7015 0640 0005 2829 9385

Sent To Gregory R. Sorrell & Ann T. Sorrell
Street and Apt. No. 35 Colonial Drive
City, State, ZIP+4 Londonderry, NH 03053

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7015 0640 0005 2829 9378

Sent To Wayland H. Elwood & Pauline D. Elwood
Street and Apt. No. 54 Elwood Road
City, State, ZIP+4 Londonderry, NH 03053

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Sent To Scott T. Miller & Maureen A. Miller
Street and Apt. No. 3 Cedar Lane
City, State, ZIP+4 Londonderry, NH 03053

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Bruce Leavitt & Sherry B. Leavitt
Street and Apt. No: 9 Chestnut Hill Drive
City, State, ZIP+4: Londonderry, NH 03053

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Sent To: Paul W. Schacht, Jr. & Maria S. Schacht
Street and Apt. No: PO Box 588
City, State, ZIP+4: Londonderry, NH 03053

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Postage $ .49
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Sent To: George F. & Charlotte C. Butler
Street and Apt. No: 217 High Range Road
City, State, ZIP+4: Londonderry, NH 03053

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Scott A. Parisi & Tara J. Parisi
Street and Apt. No: 3 Chestnut Hill Drive
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and $ 3.94

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Sent To: Brian J. Pinelle & Jody A. Pinelle
Street and Apt. No: 21 Chestnut Hill Drive
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 2.94

Postmark Here

Sent To: Kenneth H. Birdsall & Brenda N. Birdsall
Street and Apt. No: 15 Chestnut Hill Drive
City, State, ZIP+4: Londonderry, NH 03053

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Gary R. Kimball & Pamela G. Kimball
Street and Apt. No: 35 Heritage Lane
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Adult Signature Required $ ____
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Postage $ .49
Total Postage and $ 3.94

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Sent To: Etal Miller, c/o Barbara Ann Miller
Street and Apt. No: 6991 Allen Road
City, State, ZIP+4: Parkdale, OR 97041

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Matthew & Krista A. Fitzgerald
Street and Apt. No: 9 Wheelwright Cir.
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Adult Signature Required $ ____
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Postage $ .49
Total Postage and $ 3.94

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Sent To: Kenneth S. Bell & Sue E. Bell
Street and Apt. No: 3613 Baird Drive
City, State, ZIP+4: Edmond, OK 73013-6332

PS Form 3800, ...

7015 0640 0005 2829 9637

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Postage $ .49
Total Postage and $ 3.94

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Sent To: Christopher L. & Antoinette Hand
Street and Apt. No: 14 Shasta Drive
City, State, ZIP+4: Londonderry, NH 03053-3009

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7015 0640 0005 2829 9644

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and $ 3.94

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Sent To: Glenn E. & Jeananne McCaffrey
Street and Apt. No: 8 Shasta Drive
City, State, ZIP+4: Londonderry, NH 03053

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Postage $ .49

Total Postage and $ 3.94

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Street and Apt. No.

City, State, ZIP+4

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7015 0640 0005 2829 9675

Hayford Kimball Lumber Co.
46 Raintree Drive
Londonderry, NH 03053

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49

Total Postage and $ 3.94

Sent To

Street and Apt. No.

City, State, ZIP+4

Postmark Here

7015 0640 0005 2829 9620

John A. & Andrea E. Tejada
20 Shasta Drive
Londonderry, NH 03053

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49

Total Postage and $ 3.94

Sent To

Street and Apt. No.

City, State, ZIP+4

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7015 0640 0005 2829 9651

Michael S. Noone, Jr.
208 High Range Road
Londonderry, NH 03053

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Robert D. Steibing
39 Royal Lane
Londonderry, NH 03053

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12 Murphy Drive
Nashua, NH 03062

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333 Mammoth Road
Londonderry, NH 03053

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68 Shasta Drive
Londonderry, NH

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Londonderry, NH 03053

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8 Raven Terrace
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Ronald P. Chapdelaine & Cynthia L. Chapdelaine
106 Hovey Road
Londonderry, NH 03053-2935

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23 Judy Drive
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c/o Pater Real Estate
82 West Broadway
Derry, NH 03038

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6 Rockingham Road
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Londonderry, NH 03053-3119

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Scott E. Benson & Sarah J. Benson
8 Snowflake Lane
Londonderry, NH 03053

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Mark A. Berglund & Denise A. Berglund
15 Judy Drive
Londonderry, NH 03053

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Jacqueline Prizer
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Nashua, NH 03060

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PO Box 1316
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James Stopherd & Irene T. Stopherd
55 Rockingham Road
Londonderry, NH 03053-0424

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Johnson Family Realty Revocable Trust
Gary W. Johnson, Sr. & Sharon L. Johnson, Trustees
11 Snowflake Lane
Londonderry, NH 03053

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City, State, ZIP+4®: 5 Mockingbird Lane
Hudson, NH 03051

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Sent To: Paul R. & Lisa Lind
Street and Apt. No.: 2 Seasons Lane
City, State, ZIP+4®: Londonderry, NH 03053

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Sent To: David Thompson & Dorothy Thompson
Street and Apt. No.: 17 Judy Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Street and Apt. No.: 5 Dan Hill Road
City, State, ZIP+4®: Londonderry, NH 03053

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City, State, ZIP+4®: Londonderry, NH 03053

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Street and Apt. No.: Virginia A. Mason-Schuman
City, State, ZIP+4®: PO Box 855
Londonderry, NH 03053

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Sent To: John M. Sturges & Mary L. Sturges
Street and Apt. No.: 12 Snowflake Lane
City, State, ZIP+4®: Londonderry, NH 03053

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Street and Apt. No.: 336 Boston Post Road
City, State, ZIP+4®: Weston, MA 02493

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Sent To: Garett M. Liddell
Street and Apt. No.: 62 Fox Hill Lane
City, State, ZIP+4®: Norwell, MA 02061

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Sent To: Irving E. Taylor & Diane Waller
Street and Apt. No.: 22 Rockingham Road
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Sent To: Carole A. Connolly
Jamie E. Connolly Parker
Street and Apt. No.: 6 Seasons Lane
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Sent To: B-Saini Group LLC
Street and Apt. No.: 428 Main Street, Apt. 2
City, State, ZIP+4®: Haverhill, MA 01831

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Postage $ .49
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Sent To: Alfred H. Elliott & Pauline Elliott
Street and Apt. No.: 61 Hardy Road
City, State, ZIP+4®: Londonderry, NH 03053

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Sent To: Candice E. McGrath
Paul Palazzolo
Street and Apt. No.: 27 Judy Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
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Sent To: Jean Theresa Meyers
Street and Apt. No.: 31 Bancroft Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and $ 3.94

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Sent To: John A. Morrison Revocable Trust
John A. Morrison, Trustee
Street and Apt. No.: 94 Hardy Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fe $ 3.94

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Sent To: Debra M. Durning
Street and Apt. No.: 21 Judy Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage an $ 3.94

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Sent To: William Tate
Street and Apt. N: 76 Old Derry Road
City, State, ZIP+4: Hudson, NH 03051

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Wayland H. Elwood
Amy Hills
Street and Apt. No., Ronald E. Lawrence
City, State, ZIP+4® 54 Elwood Road
Londonderry, NH 03053

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Postage $ .49
Total Postage and Fe $ 3.94

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Sent To: Danielle E. Desmarais & Ryan N. Desmarais
Street and Apt. No., 31 Severance Drive
City, State, ZIP+4® Londonderry, NH 03053-3119

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Zane Dylan Sundquist
Street and Apt. No., 275 Nashua Road
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Hickory Woods LLC
Street and Apt. No., 15 Dartmouth Drive, Suite 102
City, State, ZIP+4® Auburn, NH 03032

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Postage $ .49
Total Postage and Fr $ 3.94

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Sent To: Ramon I. Hernandez & Marizel L. Quitongan
Street and Apt. No., 9 Dan Hill Road
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49
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Sent To: Town of Londonderry
Street and Apt. No., 268B Mammoth Road
City, State, ZIP+4® Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: Roland Flores & Aline J. Flores

Street and Apt. No.: 13 Colonial Drive

City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: Eric J. Plummer

Street and Apt. No.: 200 Pillsbury Road

City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: M & P Murphy Family Revocable Trust

Street and Apt. No.: Martin J. & Patricia I. Murphy, Successors, Trustees

City, State, ZIP+4®: 25 Colonial Drive, Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: Lawrence P. Moffett & Debbie A. Moffett

Street and Apt. No.: 19 Colonial Drive

City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: Bart N. Quirinale

Street and Apt. No.: 5 Hancock Drive

City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49

Total Postage and Fees $ 3.94

Sent To: John J. Briere & Debra L. Briere

Street and Apt. No.: 31 Colonial Drive

City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
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Sent To: Sunnycrest Farm, Incorporated
Street and Apt. No.: 59 High Range Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Charles J. Fuller, Jr. & Cherie A. Fuller
Street and Apt. No.: 42 Elwood Road
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Joshua D. Dion & Amy E. Dion
Street and Apt. No.: 5 Shadow Ridge Road
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Sent To: Marie A. Parker & Benjamin E. Parker
Street and Apt. No.: 26 Anthony Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
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Sent To: Robert Reynolds Revocable Trust 2013 RE., K. Lownds-Reynolds Revocable Trust 2013 L.
Street and Apt. No.: 5 Chestnut Hill Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Sent To: Leo J. Roy & Karen L. Roy
Street and Apt. No.: 31 Mayflower Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Albert W. Sheldon & Hazel L. Sheldon
Street and Apt. No.,: 17 Chestnut Hill Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Richard G. Kenny & Silvia L. Kenny
Street and Apt. No.,: 11 Chestnut Hill Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

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Sent To: Kurt W. Hinxman & Cynthia A. Hinxman
Street and Apt. No.,: 48 Mayflower Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Dona E. Solmon
Street and Apt. No.,: 12 Hickory Hill Drive
City, State, ZIP+4®: Londonderry, NH 03053

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Postage $ .49
Total Postage and F $ 3.94

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Sent To: James J. Dimare & Rosanne M. Dimare
Street and Apt. No.,: 41 Royal Lane
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Patricia B. Hamann Revocable Trust
Patricia B. Hamann, Grantor & Trustee
Street and Apt. No.,: 35 Royal Lane
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Paul R. & Katherine O. Fanning
Street and Apt. No.: 10 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: David R. Trenner
Street and Apt. No.: 4 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: David A. & Judith A. Larochelle
Street and Apt. No.: 22 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053-3009

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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Sent To: Jonathan R. & Kristin R. Mullen
Street and Apt. No.: 16 Shasta Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Restricted Delivery $

Postage $ .49
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Sent To: Lyons Family Trust
Street and Apt. No.: David S. & Karen S. Lyons, Trustees
City, State, ZIP+4®: 23 Davis Drive
Londonderry, NH 03053

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7015 0640 0005 9531 5797

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- ☐ Adult Signature Restricted Delivery $

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Total Postage and Fees $ 3.94

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Sent To: Richard McLaughlin
Street and Apt. No.: 34 Heritage Lane
City, State, ZIP+4®: Londonderry, NH 03053

PS Form 3800, Ap

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: John J. & Deanna M. Delvecchio
Street and Apt. No.,: 11 Wheelwright Cir.
City, State, ZIP+4®: Londonderry, NH

PS Form 3800, Ap

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: Matthew St. Gelais & Faith Isabelle
Street and Apt. No.,: 6 Danby Ct.
City, State, ZIP+4®: Londonderry, NH 03053-2447

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: David W. Fletcher & Susan E. Fletcher
Street and Apt. No.,: 13 Darrow Way
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: Tara K. Muise
Street and Apt. No.,: 346 Mammoth Road
City, State, ZIP+4®: Londonderry, NH 03053

PS Form 3800, Ap

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: CSR Realty Trust
Street and Apt. No.,: Linda J. Price, Trustee
City, State, ZIP+4®: 12 Bancroft Road
Londonderry, NH 03053

PS Form 3800, Apr

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: Jimmy Lebel & Jennifer L. Lebel
Street and Apt. No.,: 39 Bancroft Road
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

7015 0640 0005 9531 5933

Sent To: Peter J. Sapatis
Street and Apt. No.: 5 Avery Road
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

7015 0640 0005 9531 5940

Sent To: Vigeant Family Properties LLC
Street and Apt. No.: 5 Mockingbird Lane
City, State, ZIP+4®: Hudson, NH 03051

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

7015 0640 0005 9531 5919

Sent To: Bruce Guttman & Filda R. Guttman
Street and Apt. No.: 10 Dan Hill Road
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

7015 0640 0005 2829 9859

Sent To: Linda K. & Douglass C. Harvey, Jr.
Street and Apt. No.: PO Box 639
City, State, ZIP+4: Londonderry, NH 03053

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

Postmark Here

7015 0640 0005 9531 5896

Sent To: Robert L. McIntosh & Jill M. McIntosh
Street and Apt. No.: 1 Colonial Drive
City, State, ZIP+4®: Londonderry, NH 03053-2564

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fees $ 3.94

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7015 0640 0005 9531 5902

Sent To: Brian J. Goodchild & Jennifer D. Goodchild
Street and Apt. No.: 24 Ridgemont Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Adult Signature Required $
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Postage $ .49
Total Postage and F $ 3.94

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Sent To: Robert S. & Marcia L. Feldmann
Street and Apt. No.,: 21 Colonial Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and Fe $ 3.94

Postmark Here

Sent To: Alan D. Schirch & Jane M. Schirch
Street and Apt. No., o: 15 Colonial Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and $ 3.94

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JUL - 6 2015

Sent To: John J. Burke & Barbara A. Burke
Street and Apt. No.,: 33 Colonial Drive
City, State, ZIP+4®: Londonderry, NH 03053

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here

Sent To: Carbone Family Trust
Street and Apt. No.,: Kim A. Carbone, Trustee
City, State, ZIP+4®: 27 Colonial Drive
Londonderry, NH 03053

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here
JUL - 6 2015

Sent To: Thomas D. Agrella & Michelle E. Agrella
Street and Apt. No.,: 46 Elwood Road
City, State, ZIP+4®: Londonderry, NH 03053

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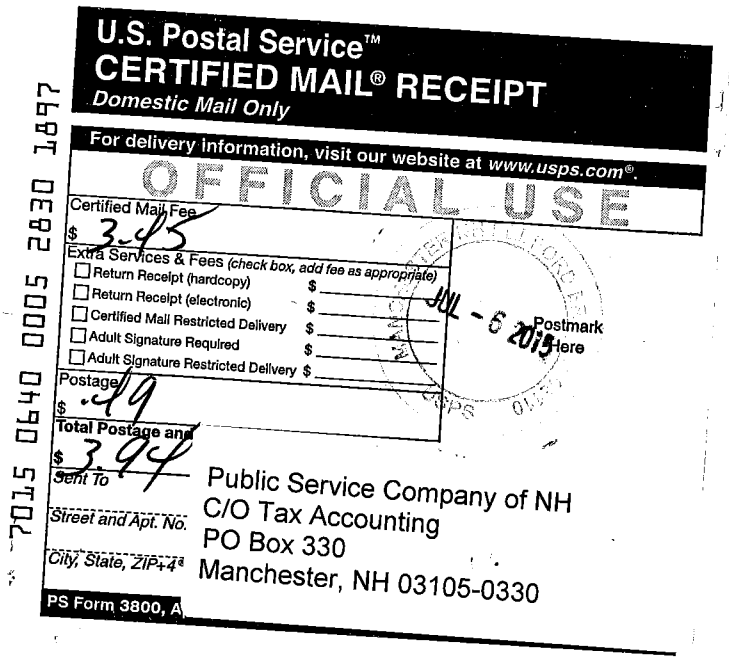
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .49
Total Postage and F $ 3.94

Postmark Here
JUL - 6 2015

Sent To: Nicolas Sabino
Street and Apt. No.,: 10 Hancock Drive
City, State, ZIP+4®: Londonderry, NH 03053

PS Form 3800, Ap



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- ☐ Adult Signature Required $
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Postage
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Total Postage and
$ 3.94

JUL - 6 2015
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City, State, ZIP+4®

Public Service Company of NH
C/O Tax Accounting
PO Box 330
Manchester, NH 03105-0330

PS Form 3800, A

7015 0640 0005 2830 1897

Town of Londonderry
New Hampshire

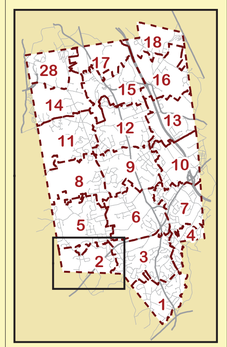
Parcel Atlas
April, 2014

18-9 — Parcel ID
100 — Parcel Dimension
50 (256) — Parcel Frontage / Parcel Address
Tax Map Divisions

- Paved Roads
- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
- Commercial IV (C-IV)
- Mixed Use Commercial (MUC)
- Gateway Business (GB)
- Industrial I (IND-I)
- Industrial II (IND-II)
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours



400 0 400 Feet

1 inch = 400 feet

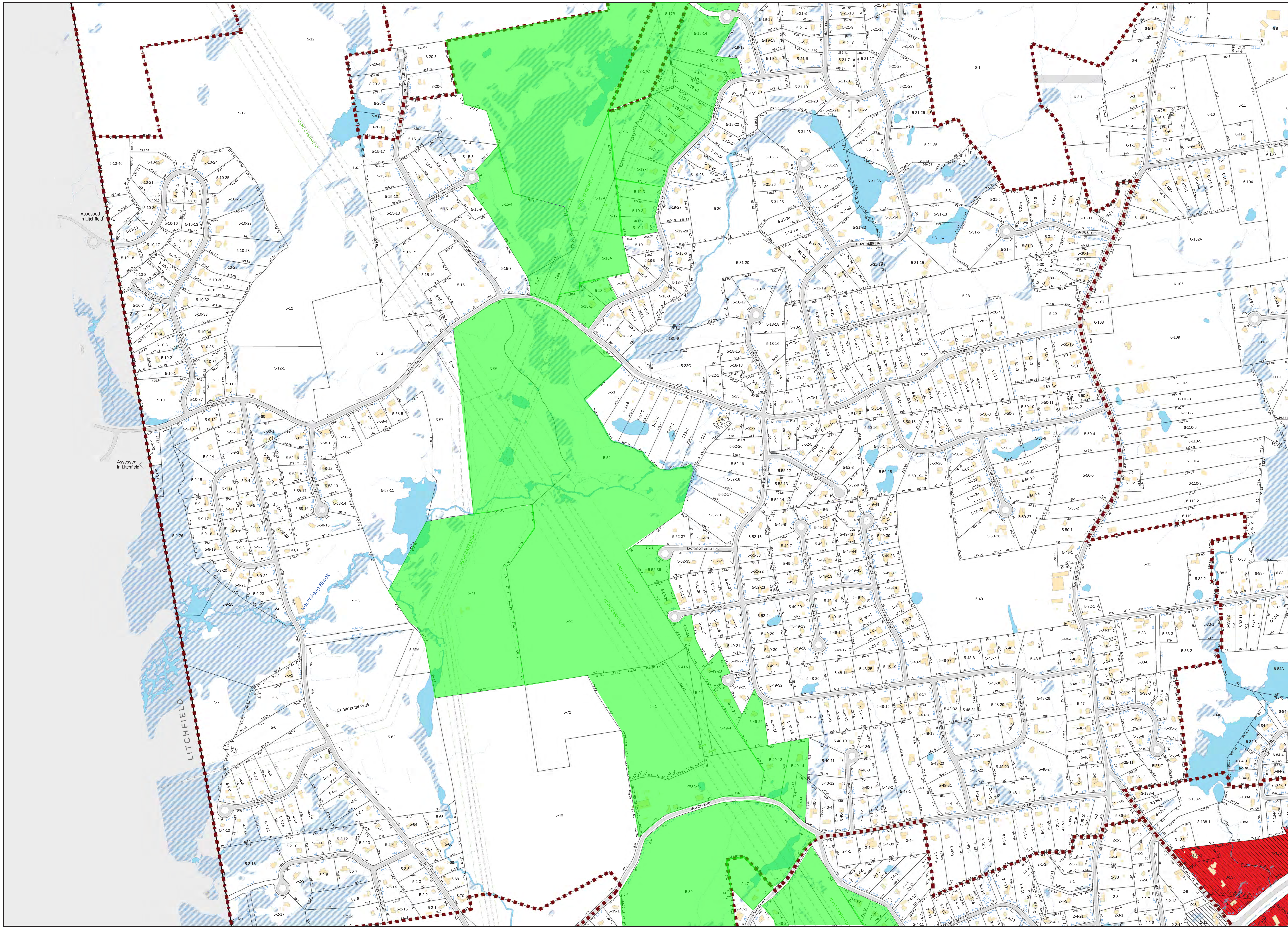
Tax Map 002

Source:

Parcel lines are current as of April 1, 2014 and were mapped using aerial photo interpretation, AutoCAD engineering files or recorded deeds as reference. Base features were mapped by Infotech, LLC from aerial photography captured in Spring, 2010. Regular updates to both parcels and landbase features are performed as new development or lot adjustments are approved.

These maps have been prepared for assessment purposes only and are not intended for legal description or conveyance.

Project: TaxMaps2014
Printed: 7/9/2014



Town of Londonderry New Hampshire

Parcel Atlas
April, 2014

18-9: Parcel Dimension; Parcel ID; Parcel Address; Parcel Frontage; Tax Map Divisions

- Paved Roads
- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
- Commercial IV (C-IV)
- Mixed Use Commercial (MUC)
- Gateway Business (GB)
- Industrial I (IND-I)
- Industrial II (IND-II)
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours

400 0 400 Feet
1 inch = 400 feet

Tax Map 005

Source:

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Project: TaxMaps2014
Printed: 7/9/2014

Town of Londonderry
New Hampshire

Parcel Atlas
April, 2014

18-9 — Parcel ID
100 — Parcel Dimension
50 (256) — Parcel Address / Parcel Frontage
Tax Map Divisions

- Paved Roads
- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
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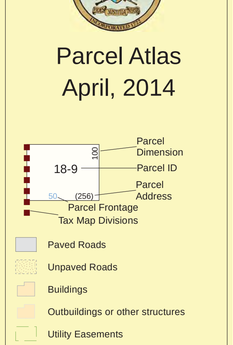
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours



400 0 400 Feet

1 inch = 400 feet

Tax Map 008

Source:

Parcel lines are current as of April 1, 2014 and were mapped using aerial photo interpretation, AutoCAD engineering files or recorded deeds as reference. Base features were mapped by Infotech, LLC from aerial photography captured in Spring, 2010. Regular updates to both parcels and landbase features are performed as new development or lot adjustments are approved.

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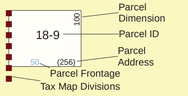
Project: TaxMaps2014
Printed: 7/9/2014

Town of Londonderry New Hampshire

Parcel Atlas
April, 2014



- Paved Roads
- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
- Commercial IV (C-IV)
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- Gateway Business (GB)
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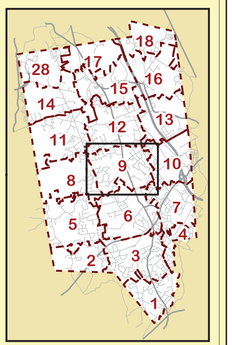
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours



400 0 400 Feet

1 inch = 400 feet

Tax Map 009

Source:

Parcel lines are current as of April 1, 2014 and were mapped using aerial photo interpretation, AutoCAD engineering files or recorded deeds as reference. Base features were mapped by Infotech, LLC from aerial photography captured in Spring, 2010. Regular updates to both parcels and landbase features are performed as new development or lot adjustments are approved.

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Project: TaxMaps2014
Printed: 7/9/2014

Town of Londonderry
New Hampshire

Parcel Atlas
April, 2014

18-9 100 — Parcel Dimension; Parcel ID
50 (256) — Parcel Address; Parcel Frontage
Tax Map Divisions

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- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
- Commercial IV (C-IV)
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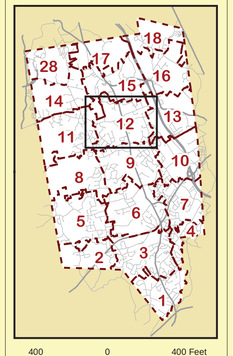
- Industrial II (IND-II)
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours



400 0 400 Feet

1 inch = 400 feet

Tax Map 012

Source:

Parcel lines are current as of April 1, 2014 and were mapped using aerial photo interpretation, AutoCAD engineering files or recorded deeds as reference. Base features were mapped by Infotech, LLC from aerial photography captured in Spring, 2010. Regular updates to both parcels and landbase features are performed as new development or lot adjustments are approved.

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Project: TaxMaps2014
Printed: 7/9/2014

Town of Londonderry New Hampshire

Parcel Atlas
April, 2014

Parcel Dimension
18-9 (100)
Parcel ID
50 (256)
Parcel Address
Parcel Frontage
Tax Map Divisions

- Paved Roads
- Unpaved Roads
- Buildings
- Outbuildings or other structures
- Utility Easements
- Power Transmission Lines
- Natural Gas Lines
- Ponds
- Wetlands
- Towers
- Named Streams
- Un-named Streams

Zoning Districts

- Agricultural-Residential (AR-I)
- Multi-Family Residential (R-III)
- Commercial I (C-I)
- Commercial II (C-II)
- Commercial III (C-III)
- Commercial IV (C-IV)
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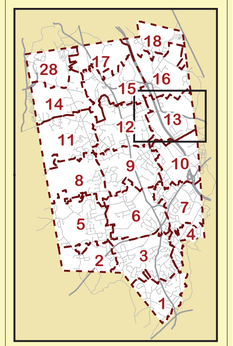
- Industrial I (IND-I)
- Industrial II (IND-II)
- Rte 28 Performance Overlay District
- Rte 102 Performance Overlay District
- Airport Overlay District (AD)
- Historic Overlay District
- Woodmont Commons PUD (PUD-1)
- MHT Noise Contours



400 0 400 Feet

1 inch = 400 feet

Tax Map 013

Source:

Parcel lines are current as of April 1, 2014 and were mapped using aerial photo interpretation, AutoCAD engineering files or recorded deeds as reference. Base features were mapped by Infotech, LLC from aerial photography captured in Spring, 2010. Regular updates to both parcels and landbase features are performed as new development or lot adjustments are approved.

These maps have been prepared for assessment purposes only and are not intended for legal description or conveyance.

Project: TaxMaps2014
Printed: 7/9/2014

Attachment G

USACE Functions and Values Forms

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.04 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development ~300'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 30
Latitude 42.706493 Longitude -71.285359
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by glossy buckthorn
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20		Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Narrow swale dominated by glossy buckthorn, drains west into forested landscape

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.58 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development ~400'

Dominant wetland systems present PSS1E, PFO1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 31
Latitude 42.708482 Longitude -71.287292
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		Area surrounding wetland consists of well vegetated forested and scrub-shrub communities
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by glossy buckthorn
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat		X	4,7,11,13,20		High vegetation density, connectivity to other wetlands
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Wetland dominated by glossy buckthorn. Hydrology is seasonal in both forested and ROW settings.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.37 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? ____

Adjacent land use Forested/ROW Distance to nearest roadway or other development 200'+

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 32
Latitude 42.709679 Longitude -71.287539
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N ____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15		Signs of variable water table, indicating possible recharge
Floodflow Alteration		X			No waterbody
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export	X		1,2,4,7	X	Large winterberry and/or highbush blueberry density
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Wetland contains purple loosestrife and glossy buckthorn. Drains in a southerly direction.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.07 Human made? No Is wetland part of a wildlife corridor? ____ or a "habitat island"? X

Adjacent land use ROW Distance to nearest roadway or other development 200'+

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 33
Latitude 42.710230 Longitude -71.288454
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N ____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15		Signs of variable water table, indicating possible recharge
Floodflow Alteration		X			No watercourse present
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X			Large winterberry and/or highbush blueberry density
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat		X			High amount of human disturbance observed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Wetland dominated by purple loosestrife. Shows signs of heavy historic disturbance from ROW development

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.52 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use Forested/ROW Distance to nearest roadway or other development 200'+

Dominant wetland systems present PSS1E, PEM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 34
Latitude 42.711271 Longitude -71.288841
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15		Signs of variable water table, indicating possible recharge
Floodflow Alteration		X			No watercourse present
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	1,2,4,7		Large winterberry and/or highbush blueberry density
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Wetland contains purple loosestrife and glossy buckthorn. Isolated wetland.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.30 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest/Residential Distance to nearest roadway or other development 0'

Dominant wetland systems present PSS1E, PSS/EM1E, R4SB5/6 Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 36
Latitude 42.719672 Longitude -71.297210
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration	X		1,2,5,6,13,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		Waterbody is intermittent
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife and glossy buckthorn
Sediment/Shoreline Stabilization		X	1		No waterbody
Wildlife Habitat	X		4,7,11,13,20	X	Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.93 Human made? no Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Forested/ROW Distance to nearest roadway or other development ~50'

Dominant wetland systems present PFO1E, PSS1E, R4SB5 Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 36A
Latitude 42.721325 Longitude -71.299385
Prepared by: AAF Date 10/8/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		7,10,13,14		Forested seep along intermittent stream
Floodflow Alteration	X		2,5,9,13,15,16,18		Narrow forested wetland bordering intermittent stream
Fish and Shellfish Habitat		X	1,2,17		Waterbody is intermittent
Sediment/Toxicant Retention	X		4,7,10,11,13,16	X	Vegetated wetland adjacent to intermittent stream
Nutrient Removal		X	8,12		Wetland has topographic gradient and nutrients are washed downstream
Production Export		X	7,11		Diverse amounts of plant species; plant material flushing from wetland
Sediment/Shoreline Stabilization		X	8,9,12		Not associated with perennial waterbody
Wildlife Habitat		X	1,14,16,17		Forested wetland surrounded by ROW and Residential land
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Obscured wetland
ES Endangered Species Habitat		X			
Other					

Notes: Forested wetland with an intermittent stream draining to the south towards Dutton Road

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.33 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use ROW/Forest/Residential/Industrial Distance to nearest roadway or other development ~400'

Dominant wetland systems present PSS1E, R4SB5/6 Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 36B

Latitude 42.718159 Longitude -71.296004

Prepared by: AAF Date 10/9/14

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,7,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration	X		2,5,6,7,10,13,18	X	Wetland associated with intermittent watercourse, hydrologically connected to Wetland WA 36 and 36A to the north.
Fish and Shellfish Habitat		X	1		Waterbody is intermittent.
Sediment/Toxicant Retention	X		1,4,10,16	X	
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife and glossy buckthorn
Sediment/Shoreline Stabilization		X	1		No waterbody
Wildlife Habitat	X		7,13		Well established ATV trail may provided Amphibian Breeding Area
Recreation		X			No recreational opportunity.
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Wetland associated with intermittent stream SA-11.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.07 Human made? No Is wetland part of a wildlife corridor? ____ or a "habitat island"? X

Adjacent land use ROW Distance to nearest roadway or other development ~200'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 37
Latitude 42.721211 Longitude -71.298278
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N ____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	3,4,15		Sandy soils, but wetland is isolated and located on a slope
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20		Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Densely vegetated with poor views
ES Endangered Species Habitat		X			
Other					

Notes: Densely vegetated isolated wetland with ephemeral upland drainage to the west over an ATV trail

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.93 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development >600'

Dominant wetland systems present PSS1E/PFO1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Middle

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 39
Latitude 42.725083 Longitude -71.301894
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20	X	Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Densely vegetated narrow PSS wetland swale draining southerly. Hydrology is seasonally saturated.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.19 Human made? no Is wetland part of a wildlife corridor? No or a "habitat island"? Yes

Adjacent land use ROW/Cell Tower Distance to nearest roadway or other development 100'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 40
Latitude 42.726284 Longitude -71.303174
Prepared by: AAF Date 10/8/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,6,8,15	X	Isolated basin with evidence of variable water table
Floodflow Alteration		X	18		Isolated wetland depression with no inlet or outlet
Fish and Shellfish Habitat		X	1		No waterbody associated with wetland
Sediment/Toxicant Retention		X	3,4,5,7,9		No sources of sediments
Nutrient Removal	X		3,5,6,7,8,9,10,11		Long water retention time
Production Export	X		2,4,5,7,8,14		Potential for large amphibian breeding population
Sediment/Shoreline Stabilization		X			Not associated with waterbody
Wildlife Habitat	X		3,5,7,11,13,15,16,17,19,20	X	Potential for large amphibian breeding population
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X	27		Wetland within maintained ROW
Visual Quality/Aesthetics		X			ROW wetland
ES Endangered Species Habitat		X			
Other					

Notes: Potential Vernal Pool - *Potentially excavated in the past*

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.09 Human made? Yes Is wetland part of a wildlife corridor? _____ or a "habitat island"? X

Adjacent land use ROW/Cell Tower Distance to nearest roadway or other development 100'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 41
Latitude 42.728351 Longitude -71.303921
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15	X	Signs of variable water table, indicating possible recharge
Floodflow Alteration		X			No watercourse present
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X			No watercourse associated with wetland for export
Sediment/Shoreline Stabilization		X			No waterbody associated with wetland
Wildlife Habitat		X			High amount of human disturbance observed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Wetland is an old borrow pit, partially filled with boulders/construction debris. Dominated by glossy buckthorn

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.93 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development ~300'

Dominant wetland systems present PSS/EM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 42C
Latitude 42.728952 Longitude -71.304903
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20	X	Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Large scrub-shrub/emergent wetland extending/draining off ROW to the west. ATV trail crosses wetland on eastern side of the ROW

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.59 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest/Cell Tower Distance to nearest roadway or other development ~150'

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 43
Latitude 42.728412 Longitude -71.304577
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		Area surrounding wetland consists of well vegetated forested and scrub-shrub communities
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by glossy buckthorn
Sediment/Shoreline Stabilization		X	1		No waterbody
Wildlife Habitat		X	4,7,11,13,20		Well established ATV trail may provided Amphibian Breeding Area
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Wetland dominated by glossy buckthorn. Hydrology is seasonal in both forested and ROW settings. Wetland drains west off ROW.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 3.13 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest/ Residential Distance to nearest roadway or other development ~100'

Dominant wetland systems present PSS1E, PFO5E, R2UB3 Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 44
Latitude 42.733184 Longitude -71.307826
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		Stream is on the edge of ROW and will not be impacted
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20	X	Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Large PSS complex draining westerly into the headwaters of a small unnamed intermittent stream.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.79 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use Forested/ROW/Substation Distance to nearest roadway or other development 200'+

Dominant wetland systems present PSS1A, PSS/EM1A, PFO5A Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 45
Latitude 42.735758 Longitude -71.310247
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15	X	Signs of variable water table, indicating possible recharge
Floodflow Alteration	X		1,2,3,6,7,8,9,18		Evidence of standing water and microtopography, ability to hold stormwater in upper portion of watershed
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export	X		1,2,4,7		Large winterberry density
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Large PSS wetland with evidence of variable water table, possible groundwater recharge.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 8.37 Human made? no Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use Forested/Old Gravel Pit/Floodplain Distance to nearest roadway or other development ~150'

Dominant wetland systems present R2UB/PUBH, PEM1H, PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 46
Latitude 42.741982 Longitude -71.314999
Prepared by: AAF Date 10/8/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	7,12		Evidence of variable water table
Floodflow Alteration	X		1,3,4,5,6,8,9,10,11,13,14,1	X	Large wetland associated with Lower Golden Brook
Fish and Shellfish Habitat	X		1,2,3,4,8,14,16,17	X	Perennial stream - Lower Golden Brook
Sediment/Toxicant Retention	X		3,10,11,12,13,14,15,16	X	PSS Floodplain allows for sedimentation
Nutrient Removal	X		1,3,5,6,8,9,10,11,12,14	X	Densely vegetated floodplain allows for nutrient uptake
Production Export	X		2,4,5,8,9,10,11		Export materials through Lower Golden Brook
Sediment/Shoreline Stabilization	X		8,9,12,14,15		Dense woody vegetation throughout floodplain
Wildlife Habitat	X		1,4,5,6,7,9,11,13,16,19,21	X	Large undeveloped wetland corridor within developed area
Recreation		X	5		Access is restricted
Educational/Scientific Value		X	5		Access is restricted
Uniqueness/Heritage	X		1,4,5,12,19,27		Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics	X		1,6,7,8,12		Large open wetland
ES Endangered Species Habitat		X			
Other					

Notes: Large floodplain wetland associated with Lower Golden Brook - Prime Wetland

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.96 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development ~300'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Middle

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 48
Latitude 42.747848 Longitude -71.319819
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat	X		4,7,11,13,20	X	Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Wetland crossed multiple times by ATV trail. Flows off site to the west.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.51 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"?

Adjacent land use Forested/ROW Distance to nearest roadway or other development 200'+

Dominant wetland systems present PSS1E, PFO1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Mid

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 49
Latitude 42.749561 Longitude -71.321312
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table
Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		5,15		Signs of variable water table, indicating possible recharge
Floodflow Alteration	X		1,2,3,6,7,8,9,18		Evidence of standing water and microtopography
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export	X		1,2,4,7	X	Large winterberry and/or highbush blueberry density
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: PSS wetland drains off site to the west. Mineral soils

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.63 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forested Distance to nearest roadway or other development >300'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 50
Latitude 42.751085 Longitude -71.322353
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,5,15		Variable water table with sphagnum moss suggests recharge
Floodflow Alteration	X		1,2,3,5,6,9,18		Large wetlands with dense vegetation may hold stormwater
Fish and Shellfish Habitat		X	1		No waterbody present
Sediment/Toxicant Retention		X	3		Wetland hydrology is seasonally intermittent with no known sources
Nutrient Removal	X		1,5,7,8,9,11		Potential for nutrient removal exists
Production Export		X	4,5,7		Wetland used more for wildlife shelter than food
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		1,3,4,5,7,11,13,15,17	X	Large deer, redtail hawks, and a variety of songbirds observed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X			Thick vegetation with no good viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Large PSS with undulating topography and pits with sphagnum moss. Deer beds abundant.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.39 Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use ROW/hayfield/Forested Distance to nearest roadway or other development ~50'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 52
Latitude 42.756575 Longitude -71.326857
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X			
Floodflow Alteration	X		2,3,6,8,9,18		hayfield ditch adjacent to stone wall
Fish and Shellfish Habitat		X	1		No waterbody present
Sediment/Toxicant Retention		X	4		Wetland hydrology is seasonally intermittent with no known sources
Nutrient Removal	X		4,7,8,9,11	X	Potential for nutrient removal exists from hayfield fertilizer
Production Export		X	1,4,7		Evidence of wildlife use
Sediment/Shoreline Stabilization		X			No waterbody present
Wildlife Habitat	X		4,5,7,9,13,14,15		Fringe habitat along the edge of a hayfeild
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X	1,12		Thick vegetation with no good viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Scrub-shrub wetland swale along the edge of a hayfield.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.05 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? ____

Adjacent land use Hayfield Distance to nearest roadway or other development ~300'

Dominant wetland systems present PEM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. OR2
Latitude 42.758059 Longitude -71.327892
Prepared by: AAF Date 5/11/15
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N ____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	5		
Floodflow Alteration		X	1,2		No waterbody present
Fish and Shellfish Habitat		X			No waterbody present
Sediment/Toxicant Retention		X			Wetland hydrology is seasonally intermittent
Nutrient Removal	X		1,4,8,9,11	X	Removal of excess nutrients from application of fertilizer to feilds
Production Export	X		3,7,12,13		high density of flowering plants and commercial use of hay
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat		X	5,7,19		Wetland is periodically mowed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X	7,12		Wetland is periodically mowed and blends with surrounding feilds
ES Endangered Species Habitat		X			
Other					

Notes: Narrow wetland swale through Active hayfield

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.31 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"?

Adjacent land use Old Field/Hayfield Distance to nearest roadway or other development ~600'

Dominant wetland systems present PEM1E, PEM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 53
Latitude 42.758059 Longitude -71.327892
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	5		
Floodflow Alteration		X	1,2		No waterbody present
Fish and Shellfish Habitat		X			No waterbody present
Sediment/Toxicant Retention		X			Wetland hydrology is seasonally intermittent
Nutrient Removal	X		1,4,8,9,11	X	Removal of excess nutrients from application of fertilizer to feilds
Production Export	X		3,7,12,13		high density of flowering plants and commercial use of hay
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat		X	5,7,19		Wetland is periodically mowed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X	7,12		Wetland is periodically mowed and blends with surrounding feilds
ES Endangered Species Habitat		X			
Other					

Notes: Old field with shrubs starting to populate the area.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.39 Human made? yes Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use ROW/hayfield/Forested Distance to nearest roadway or other development ~50'

Dominant wetland systems present PFO1C, PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 54
Latitude 42.758532 Longitude -71.328546
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X			
Floodflow Alteration	X		2,3,6,8,9,18		hayfield ditch adjacent to stone wall
Fish and Shellfish Habitat		X	1		No waterbody present
Sediment/Toxicant Retention		X	4		Wetland hydrology is seasonally intermittent with no known sources
Nutrient Removal	X		4,7,8,9,11	X	Potential for nutrient removal exists from hayfield fertilizer
Production Export		X	1,4,7		Evidence of wildlife use
Sediment/Shoreline Stabilization		X			No waterbody present
Wildlife Habitat	X		4,5,7,9,13,14,15		Fringe habitat along the edge of a hayfeild
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X	1,12		Thick vegetation with no good viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Thickly vegetated reclaimed farm field.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.82 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use Hayfield Distance to nearest roadway or other development ~350'

Dominant wetland systems present PEM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 54A
Latitude 42.759813 Longitude -71.329617
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	5		
Floodflow Alteration		X	1,2		No waterbody present
Fish and Shellfish Habitat		X			No waterbody present
Sediment/Toxicant Retention		X			Wetland hydrology is seasonally intermittent
Nutrient Removal	X		1,4,8,9,11	X	Removal of excess nutrients from application of fertilizer to feilds
Production Export	X		3,7,12,13	X	high density of flowering plants and commercial use of hay
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat		X	5,7,19		Wetland is periodically mowed
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW and hayfield
Visual Quality/Aesthetics		X	7,12		Wetland is periodically mowed and blends with surrounding feilds
ES Endangered Species Habitat		X			
Other					

Notes: Active Hayfeild

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.68 Human made? Yes Is wetland part of a wildlife corridor? X or a "habitat island"?

Adjacent land use Residential/Forested/ROW Distance to nearest roadway or other development 100'

Dominant wetland systems present PSS/EM1E, PUBH Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 2 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 59
Latitude 42.765143 Longitude -71.334078
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,6,7,9,10,13,14	X	Evidence of variable water table, signs of discharge in the lower portion of the old pit
Floodflow Alteration	X		2,3,4,6,7,8,9,13,14,15		Ponded water with a restricted outlet
Fish and Shellfish Habitat		X	1		Stream contains too low of flow to support fish
Sediment/Toxicant Retention	X		1,3,5,7,10,14		Slow moving water within deep sandy soils
Nutrient Removal		X	2,5		Ponded water, able to remove excess nutrients from nearby fields
Production Export		X	4		Open water present, evidence of wildlife use
Sediment/Shoreline Stabilization		X	9		No large flowing waterbody associated with wetland
Wildlife Habitat	X		6,9,10,11,13,15,16,17		Abundant deer sign, crayfish, aquatic beetles, amphibian breeding area
Recreation		X			
Educational/Scientific Value		X			
Uniqueness/Heritage		X	4,5,6		Within old gravel pit
Visual Quality/Aesthetics		X			Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Naturalized gravel pits

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.21 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use Forested/ROW Distance to nearest roadway or other development ~75'

Dominant wetland systems present PUBH, PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 59D
Latitude 42.767645 Longitude -71.336096
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	5,15	X	Signs of variable water table, indicating possible recharge
Floodflow Alteration	X		1,2,3,6,7,8,9,18		Evidence of standing water and microtopography
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	1,2,4,7		High vegetation density and production
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Drains into excavated pond next to driveway

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.38 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use Forested/ROW Distance to nearest roadway or other development ~75'

Dominant wetland systems present PSS1E, PEM1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 59G
Latitude 42.768265 Longitude -71.337128
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	5,15		Signs of variable water table, indicating possible recharge
Floodflow Alteration	X		1,2,3,6,7,8,9,18		Evidence of standing water and microtopography
Fish and Shellfish Habitat		X	1		No watercourse present
Sediment/Toxicant Retention		X	4		No sources of sediments/toxicants in the vicinity of the wetland
Nutrient Removal		X	1,8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	1,2,4,7		High vegetation density and production
Sediment/Shoreline Stabilization		X			No large flowing waterbody associated with wetland
Wildlife Habitat	X		5,7,8,11,13,17		Abundant deer sign and songbirds
Recreation		X			Access is restricted
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X	4		Thick vegetation with no primary viewing locations
ES Endangered Species Habitat		X			
Other					

Notes: Narrow drainage from excavated pond

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.01 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 50 ft.

Dominant wetland systems present PFO1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 60
Latitude 42.775417 Longitude -71.344786
Prepared by: LGJ Date 04/09/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15		Wetland associated with an perennial stream leading to Beaver Brook watercourse. Located near an aquifer boundary and wellhead protection area.
Floodflow Alteration		X	7, 9		Receives excess floodwaters from the surrounding uplands during large precipitation events.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2,10, 16		Wetland borders perennial stream, dense scrub-shrub vegetation present.
Nutrient Removal		X	4, 8		Wetland borders perennial stream, dense scrub-shrub vegetation present.
Production Export		X	7		Wetland not effective in producing food or usable products.
Sediment/Shoreline Stabilization	X		2, 3, 4, 12	X	Wetland borders perennial stream. Dense vegetation present.
Wildlife Habitat	X		6, 7, 8, 13	X	Located in a NH F&G tier 3 habitat top-ranked in region.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.26 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 200 ft.

Dominant wetland systems present PFO1E, PEM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 61
Latitude 42.775891 Longitude -71.344928
Prepared by: LGJ Date 04/09/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15		Wetland associated with an intermittent stream leading to Beaver Brook watercourse. Located near an aquifer boundary and wellhead protection area.
Floodflow Alteration		X	7, 9		Receives excess floodwaters from the surrounding uplands during large precipitation events.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2,10, 16		Wetland borders intermittent stream, dense scrub-shrub vegetation present.
Nutrient Removal		X	4, 8		Wetland borders intermittent stream, dense scrub-shrub vegetation present.
Production Export		X	7		Wetland not effective in producing food or usable products.
Sediment/Shoreline Stabilization	X		2, 3, 4, 12	X	Wetland borders intermittent stream. Dense vegetation present.
Wildlife Habitat	X		6, 7, 8, 13	X	Located in a NH F&G tier 3 habitat top-ranked in region.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.167 Human made? No Is wetland part of a wildlife corridor? X or a "habitat island"? _____

Adjacent land use ROW/Forest Distance to nearest roadway or other development >600'

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper/Middle

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. WA 62
Latitude 42.777623 Longitude -71.346381
Prepared by: AAF Date 10/9/14
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		3,4,15		Sandy soils suggesting minor groundwater recharge
Floodflow Alteration		X	2,18		Temporary matting proposed, no waterbody
Fish and Shellfish Habitat		X	1		No waterbody
Sediment/Toxicant Retention	X		1,4		ATV trail within wetland causing erosion
Nutrient Removal		X	8,9		No sources of excess nutrients in the vicinity of the wetland, potential exists
Production Export		X	7,8,12		Area dominated by purple loosestrife
Sediment/Shoreline Stabilization		X	1		no waterbody
Wildlife Habitat		X	4,7,11,13,20		Well established ATV trail may provided Amphibian Breeding Area
Recreation	X		1,11,12		Well established ATV trail
Educational/Scientific Value		X			Access is restricted
Uniqueness/Heritage		X			Wetland within maintained ROW
Visual Quality/Aesthetics		X			Disturbed wetland
ES Endangered Species Habitat		X			
Other					

Notes: Densely vegetated narrow PSS wetland swale draining westerly.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.27 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development ~300 ft.

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 64

Latitude 42.780615 Longitude -71.349642

Prepared by: LGJ Date 12/19/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15		Wetland associated with an perennial stream leading to Beaver Brook watercourse. Located within an aquifer boundary and wellhead protection area.
Floodflow Alteration	X		5, 7, 9		May receive excess floodwaters from perennial stream during large precipitation events. Function low due to size and sloping topography.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4, 10, 16		Wetland borders perennial stream, dense scrub-shrub vegetation present. Function limited due to size.
Nutrient Removal	X		3, 4, 7, 8		Wetland borders perennial stream, dense scrub-shrub vegetation present. Function limited due to size.
Production Export		X	7		Wetland not effective in producing food or usable products.
Sediment/Shoreline Stabilization	X		2, 3, 4, 5, 12, 13	X	Wetland borders perennial stream. Dense vegetation present.
Wildlife Habitat	X		6, 7, 8, 13		Located in a NH F&G tier 2 habitat top-ranked in region.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.32 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development >500 feet

Dominant wetland systems present R4SB3/4 / PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 65

Latitude 42.783999 Longitude -71.352664

Prepared by: LGJ Date 12/19/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15		Wetland associated with an intermittent stream leading to Beaver Brook watercourse. Located within an aquifer boundary and wellhead protection area.
Floodflow Alteration	X		5, 7, 9		May receive excess floodwaters from intermittent stream. Located directly above floodplain associated with Beaver Brook. Function low due to size and sloping topography.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4, 10, 16		Wetland borders intermittent stream, dense scrub-shrub vegetation present. Function low due to size.
Nutrient Removal	X		3, 4, 7, 8		Wetland borders intermittent stream, dense scrub-shrub vegetation present. Function low due to size.
Production Export		X	7		Wetland not effective in producing food or usable products.
Sediment/Shoreline Stabilization	X		2, 3, 4, 5, 12, 13	X	Wetland borders intermittent stream. Dense vegetation present.
Wildlife Habitat	X		6, 7, 8, 13		Located in a NH F&G tier 2 habitat top-ranked in region.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.48 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Substation, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 69
Latitude 42.790490 Longitude -71.359599
Prepared by: LGJ Date 12/19/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland function low in groundwater recharge/discharge.
Floodflow Alteration	X		3, 5, 6, 7, 9, 18	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity. Wetland drains under roadway to large system with storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity.
Nutrient Removal	X		3, 4, 8, 9	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity.
Production Export		X	1, 7		Wetland not effective in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	13		Little to no function due to location (adjacent to substation, roadway and residential development).
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.19 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Substation, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PSS1E, PFO1E, R4SB4 Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 69A
Latitude 42.790780 Longitude -71.360035
Prepared by: LGJ Date 12/19/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland function low in groundwater recharge/discharge.
Floodflow Alteration	X		3, 5, 6, 7, 9, 18	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity. Wetland drains under roadway to large system with storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity.
Nutrient Removal	X		3, 4, 8, 9	X	Wetland receives storm water run-off from abutting substation. Residential areas also within close proximity.
Production Export		X	1, 7		Wetland not effective in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	13		Little to no function due to location (adjacent to substation, roadway and residential development).
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.19 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Commercial, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PSS/EM1C, PEM1C, PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 72
Latitude 42.795426 Longitude -71.363982
Prepared by: LGJ Date 04/09/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7		Wetland located within an aquifer boundary. Wetland associated with the Beaver Brook watercourse.
Floodflow Alteration	X		7,13, 18		Receives excess run-off from surrounding uplands during large precipitation events.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 10		Wetland associated with the Beaver Brook watercourse. Dense scrub-shrub vegetation present.
Nutrient Removal	X		4, 8, 9		Wetland associated with the Beaver Brook watercourse. Wetland receives run-off from uplands during large precipitation events.
Production Export		X	1		Wetland not effective in producing food for living organisms.
Sediment/Shoreline Stabilization	X		6, 9, 12	X	Wetland is located along the Beaver Brook watercourse
Wildlife Habitat	X		6, 7, 8, 13	X	Located in a NH F&G tier 3 Supporting Landscape region.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.08 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PUBH, PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 73
Latitude 42.797186 Longitude -71.3666027
Prepared by: LGJ Date 12/19/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5,15		Wetland function low in groundwater recharge/discharge.
Floodflow Alteration	X		3, 5, 6, 7, 9, 10, 18	X	Ponded area within wetland. Water holding capacity available. Receives and retains run-off from surrounding developed residential area.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4, 5	X	Ponded area within wetland. Wetland receives and retains run-off from surrounding developed residential area.
Nutrient Removal	X		2, 3, 4, 5, 7, 8, 9	X	Ponded area within wetland. Wetland receives and retains run-off from surrounding developed residential area.
Production Export		X	1		Wetland not effective in producing food for living organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13		Ponded area within wetland provides some wildlife habitat.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.56 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential, Forest Distance to nearest roadway or other development 400 feet

Dominant wetland systems present PSS1E, PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 74
Latitude 42.798412 Longitude -71.367536
Prepared by: LGJ Date 12/19/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland function low in groundwater recharge/discharge. Wetland located adjacent to an aquifer boundary.
Floodflow Alteration	X		5, 6, 7, 9, 18	X	Wetland located between developed residential areas. May receive and detain run-off. Function limited due to size.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4		Wetland located between developed residential areas. May receive and detain some run-off.
Nutrient Removal	X		3, 4, 8		Wetland located between developed residential areas. May receive and detain some run-off.
Production Export		X	1, 7		Wetland is not effective in producing food.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13		Function limited due to location, adjacent to developed residential areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 3.15 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Forest, Agricultural Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PAB3H, PEM1E, PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1Off-ROW Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 75A

Latitude 42.800614 Longitude -71.370044

Prepared by: LGJ Date 12/19/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 15		Large wetland system with open water component, extends outside of ROW. Evidence of variable water levels present.
Floodflow Alteration	X		5, 6, 7, 9, 10, 13, 16	X	Moderate flood storage capacity, open water components present. Hydrologically connected to Robinson Pond to the west. Very poorly drained soils and dense vegetation present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 10, 11, 12, 16	X	Dense emergent/scrub shrub vegetation, very poorly drained soils present. Large area of open water present with long-term storage capacity.
Nutrient Removal	X		2, 3 ,4, 5, 7, 8, 9, 14	X	Dense emergent/scrub shrub vegetation, very poorly drained soils present. Large area of open water present with long-term storage capacity.
Production Export		X	1, 7		Wetland function low in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9,13		Open water component. Vegetation density high. Located near an easement parcel. Wetland within a NH F&G habitat ranked as tier 3 - Supporting Landscape.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Appears to be hydrologically connected to Robinson Pond via a stream channel located outside of the ROW (study limits).

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.18 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential, Agricultural, Forest Distance to nearest roadway or other development > 1,000 feet

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 75B
Latitude 42.802628 Longitude -71.371859
Prepared by: LGJ Date 12/18/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 7,15		Wetland is not a recharge/discharge site.
Floodflow Alteration	X		5, 6, 7, 9, 10, 18	X	Wetland may provide some flood storage capacity for adjacent cleared agricultural land. Also may receive excess floodwaters from wetland 75A located to the east.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 4, 16		Wetland contains emergent and scrub-shrub vegetation. Wetland may receive sediment-laden run-off from adjacent agricultural land.
Nutrient Removal	X		3, 4, 5, 8, 9	X	Wetland contains emergent and scrub-shrub vegetation. Wetland may receive sediment-laden run-off from adjacent agricultural land.
Production Export		X	1, 7		Wetland is not effective in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13		Wetland located adjacent to active farmland. Located near an easement parcel. Wetland just outside a NH F&G habitat ranked as tier 3 - Supporting Landscape.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 3.10 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 25 feet

Dominant wetland systems present PEM, PFO Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 2 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 77B
Latitude 42.806319 Longitude -71.374829
Prepared by: LGJ Date 12/10/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 9, 15		Wetland has two main inlets, one outlet into Robinson Pond.
Floodflow Alteration	X		6, 7, 9, 13, 14	X	Wetland detains water flow from directly entering Robinson Pond.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 10, 15	X	Slow-moving waters of wetland and soil type (fine sandy loam/mucky peat) retain water before it reaches associated pond. Sed/tox potential from nearby road and residential areas.
Nutrient Removal	X		3, 7, 14		Slow-moving waters of wetland and soil type (fine sandy loam/mucky peat) allows wetland to remove nutrients effectively. Sed/nutrient runoff potential from nearby road and resid. areas.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 12, 13	X	Wetland surrounded by residential areas. Food sources exist, vegetation density high. Area ranked as tier 3, supporting landscape for NHF&G critical habitat designated area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.69 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PSS1C, PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 77C

Latitude 42.807622 Longitude -71.376020

Prepared by: LGJ Date 12/11/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 10, 15		Wetland outlets into associated wetland 77B.
Floodflow Alteration	X		2, 3, 6, 7, 9,	X	Receives water from surrounding watershed which travels to associated watershed that has a high water storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 10, 15	X	Slow-moving waters of wetland retain water before it reaches associated wetland and pond. Sediment/toxicant runoff potential from nearby residential areas.
Nutrient Removal		X	3, 4, 8		Low function in nutrient trapping based on size and location within landscape. Sediment/ nutrient runoff potential from nearby residential areas.
Production Export		X	1, 7		Low function in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 13		Wetland surrounded by residential areas. Food sources exist, vegetation density high. Adjacent wetland area ranked as tier 3, supporting landscape for NHF&G critical habitat designated area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.31 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? ____

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PSS Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 77D
Latitude 42.808187 Longitude -71.377155
Prepared by: LGJ Date 12/11/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N ____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 10, 15		Wetland connects to wetland 77C, leading to associated wetland 77B.
Floodflow Alteration		X	2, 3, 6, 7, 9	X	Receives small amounts of water from surrounding watershed which travels along an intermittent channel to associated watersheds that have high water storage capacites.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 10, 15	X	Slow-moving waters of wetland retain water before it reaches associated wetland and pond. Sediment/toxicant runoff potential from nearby residential areas.
Nutrient Removal			3, 8		Low function in nutrient trapping based on size and location within landscape. Sediment/ nutrient runoff potential from nearby residential areas.
Production Export		X	1, 7		Low function in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	6, 8, 13		Wetland surrounded by residential areas. Food sources and veg. exist. Low wildlife habitat function. Adjacent wetland area ranked as tier 3, supporting landscape for critical habitat.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.56 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? _____

Adjacent land use ROW, Rural, Residential, Roadway Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PSS1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? _____

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 78
Latitude 42.804660 Longitude -71.373032
Prepared by: LGJ Date 1/20/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4		Wetland is not a recharge/discharge site.
Floodflow Alteration		X	5, 9		Low flood storage capacity and lack of adjacency to watercourse.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	4		Wetland does not provide function due to location, size, vegetation composition, and lack of nearby sources. Wetland does not retain water for extended periods of time.
Nutrient Removal	X		4, 9		Wetland abuts agricultural/farmland; however function is minimal due to size, vegetation composition, and lack of direct input. Wetland also does not retain water for extended periods.
Production Export		X	1, 7		Wetland is not effective in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		5, 7, 8		Wetland borders upland wildlife habitat (active farmland); however wetland is also located directly adjacent to residential home.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.32 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 300 feet

Dominant wetland systems present PAB3H, PEM1F Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 85
Latitude 42.814270 Longitude -71.383746
Prepared by: LGJ Date 12/11/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5, 9, 10, 15		Wetland functions as holding area for water, slow discharge rate.
Floodflow Alteration	X		2, 3, 5, 6, 7, 9, 13, 14	X	Wetland receives and slowly releases water traveling to Robinson Pond.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5, 10, 11, 12, 14	X	High function in sediment/toxicant retention due to slow-moving, deep waters of wetland and soil type.
Nutrient Removal	X		2, 3, 5, 6, 7, 11, 14	X	High function in nutrient removal due to wetland composition and soil type (organic/muck).
Production Export	X		1, 2, 8, 9		Wetland function moderate in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		8, 9, 11, 12, 15, 18, 20	X	Wetland composed of diverse habitat types and food sources. Adjacent to wetland area ranked as tier 3, supporting landscape for critical habitat.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.89 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 25 feet

Dominant wetland systems present PSS1E, PSS1B, PFO1E, PFO1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 86
Latitude 42.819039 Longitude -71.389294
Prepared by: LGJ Date 12/11/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7		Broad, flat wetland, associated with similar wetlands. Part of wetland made up of mucky/ loamy/sandy/stony soils.
Floodflow Alteration	X		2, 5, 6, 7, 8, 9, 14	X	Saturated hydric soils. Wetland broad, flat; ideal for high water storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5	X	Slow-moving waters of wetland and soil type (mucky/loamy/sandy/stony) retain water before it reaches associated wetlands. Sed/tox potential from nearby road and residential areas.
Nutrient Removal	X		3, 4, 5, 7		Slow-moving waters of wetland and soil type (mucky/loamy/sandy/stony) allows wetland to remove nutrients effectively. Sed/nutrient runoff potential from nearby road and resid. areas.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 13		Wetland surrounded by residential areas. Food sources exist, vegetation density high.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.34 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 25 feet

Dominant wetland systems present PSS Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 87A
Latitude 42.820560 Longitude -71.391251
Prepared by: LGJ Date 12/11/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7		Broad, flat wetland, associated with similar wetlands. Part of wetland made up of mucky/ loamy/sandy/stony soils.
Floodflow Alteration	X		2, 5, 6, 7, 8, 9, 14	X	Saturated hydric soils. Wetland broad, flat; ideal for high water storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5	X	Slow-moving waters of wetland and soil type (mucky/loamy/sandy/stony) retain water before it reaches associated wetlands. Sed/tox potential from nearby road and residential areas.
Nutrient Removal	X		3, 4, 5, 7		Slow-moving waters of wetland and soil type (mucky/loamy/sandy/stony) allows wetland to remove nutrients effectively. Sed/nutrient runoff potential from nearby road and resid. areas.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 13	X	Wetland surrounded by residential areas. Food sources exist, vegetation density high.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.76 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PFO1C, PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 88

Latitude 42.822545 Longitude -71.392888

Prepared by: LGJ Date 12/11/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 15		Small, shallow wetland. Small role in groundwater recharge/discharge into larger, associated wetland #87.
Floodflow Alteration		X	2, 3, 9		Small, shallow wetland associated with wetland #87. Retains small amounts of runoff from surrounding watershed.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 3		Small, shallow wetland associated with wetland #87. Small role in sediment/toxicant premoval.
Nutrient Removal		X	3, 9		Small, shallow wetland associated with wetland #87. Small role in nutrient removal.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		8, 13, 14	X	Wetland contains vernal pool. Food sources exist, vegetation density high.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.01 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1G, PUB2Hb, R2UB2Hb Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 89

Latitude 42.824182 Longitude -71.396079

Prepared by: LGJ Date 12/11/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 9, 15	X	Wetland associated with Chase Brook waterway. Within wellhead protection areas and aquifer located within wetland area. Constricted outlet to rest of waterway.
Floodflow Alteration	X		5, 7, 8, 9, 10, 16	X	Saturated hydric soils (very poorly drained). Ponded area within Chase Brook waterway; detains water from continuing along brook. Flood hazard area downstream on brook.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 10, 12,		Slow-moving waters of wetland and soil type (mucky/loamy/sandy/stony) retain water before it reaches associated wetlands. Sed/tox potential from nearby road and residential areas.
Nutrient Removal		X	2, 3, 4, 5, 7		Wetland function moderate in nutrient removal.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 12, 17	X	Wetland surrounded by residential areas. Food sources exist, vegetation density high. Beaver activity observed.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.29 Human made? Yes Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PEM1Gx, PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 90
Latitude 42.825106 Longitude -71.395949
Prepared by: LGJ Date 12/11/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 15	X	Wetland above Chase Brook waterway and wetland #89. Within wellhead protection areas and aquifer located within wetland area.
Floodflow Alteration	X		8, 9, 10	X	Small open-water area above Chase Brook waterway; detains small amounts of water from entering brook. Water storage potential. Flood hazard area located downstream along brook.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 10, 12		Small role in sediment/toxicant retention from nearby road and residential areas due to small size. Small role in delaying or preventing sed/tox from entering associated brook.
Nutrient Removal		X	2, 3, 5		Wetland function low in nutrient removal.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 8, 17	X	Wetland surrounded by residential areas. Food sources exist, vegetation density high. Beaver activity observed in adjacent ponded area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.16 Human made? Yes Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential, Commercial Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 91
Latitude 42.825804 Longitude -71.396195
Prepared by: LGJ Date 04/09/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15		Wetland above Chase Brook waterway and wetland WA 89 and 90. Wellhead protection areas and aquifer located within wetland area.
Floodflow Alteration	X		8, 9, 10, 18	X	Wetland receives and retains water from surrounding landscape. Water storage potential. Flood hazard area located downstream along Chase Brook, near wetland.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 10, 12, 15	X	Small role in sediment/toxicant retention from nearby road and residential areas. Small role in delaying or preventing sed/tox from entering associated brook.
Nutrient Removal	X		3, 4, 5, 8		Small role in nutrient removal - slow moving waters in wetland and high vegetation density traps and stores nutrients.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 11, 13, 17	X	Wetland surrounded by residential areas. Food sources exist, vegetation density high. Beaver activity observed in nearby ponded area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.31 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PAB4E, PEM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 92

Latitude 42.826763 Longitude -71.397836

Prepared by: LGJ Date 12/11/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 15		Small wetland within wellhead protection areas; aquifer located just below wetland. In close proximity to residential areas. Saturation and water marks visible.
Floodflow Alteration	X		2, 3, 4, 5, 6, 7, 9, 10	X	Wetland in close proximity to wetland areas. Located at beginning of watershed; temporarily detains water from entering associated wetland. Very poorly drained soils.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 3		Small portion of wetland composed of very poorly drained soils (mucky peat). Wetland function low in sediment/toxication retention.
Nutrient Removal		X	3, 4		Wetland function low in nutrient removal.
Production Export		X	1, 8		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 14	X	Wetland in close proximity to wetland #89 and 90. Food sources exist, vegetation density high. Potential vernal pool identified in the field.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 7.43 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1F, PFO5F, PFO1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 93

Latitude 42.831118 Longitude -71.402641

Prepared by: LGJ Date 12/12/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		1, 5, 7, 9, 15	X	Wetland located at the beginning of an aquifer boundary. Effective in groundwater recharge/ discharge due to broad, flat topography and soil composition (mucky peat).
Floodflow Alteration	X		5, 6, 7, 8, 9, 10, 14	X	Wetland adjacent to Nesenkeag Brook. Role in detaining and storing water. Hydric soil (mucky peat) present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5, 6, 10, 12	X	Wetland composed of very poorly drained soils (mucky peat). Residential areas and roadway nearby; located above aquifer boundary. Detains water from nearby wetland areas.
Nutrient Removal	X		3, 4, 5, 7, 9, 12		Wetland function moderate in nutrient removal due to broad, flat topography and soil composition (mucky peat).
Production Export		X	1, 8		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 15	X	Food sources exist, vegetation density high. Wetland in close proximity to Nesenkeag Brook and associated wetland areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.01 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, ROW, Forest Distance to nearest roadway or other development 1000 feet

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 94

Latitude 42.832648 Longitude -71.403769

Prepared by: LGJ Date 1/20/2015

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5		Wetland does not contribute to gw recharge/discharge function.
Floodflow Alteration		X	5, 18		Little to no flood storage capacity due to small size.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	4		Wetland does not provide this function due to small size, confinement within ROW limits, and lack of potential sources nearby.
Nutrient Removal		X	8		Wetland does not provide this function due to small size, confinement within ROW limits, and lack of potential sources nearby.
Production Export		X	1, 7		Wetland is not effective in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7		No suitable wetland habitat based on small size.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.10 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 600 feet

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 95
Latitude 42.8329-0 Longitude =71.404245
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 7, 15		Small wetland located between wetland #93 and 97. Aquifer boundary located nearby.
Floodflow Alteration	X		6, 7, 8, 9, 10	X	Wetland in close proximity to larger wetland areas. Temporarily detains water from entering associated wetland.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 6, 10		Wetland function low in sediment/toxication retention.
Nutrient Removal		X	5, 12		Wetland function low in nutrient removal.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9	X	Food sources exist, vegetation density high.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.88 Human made? Yes Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 600 feet

Dominant wetland systems present PEM1H, PEM/SS1F Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 97

Latitude 42.833403 Longitude -71.404728

Prepared by: LGJ Date 12/12/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 15	X	Wetland located within an aquifer boundary. Ponded area located within the Nesenkeag Brook waterway.
Floodflow Alteration	X		7, 8, 9, 10, 13	X	Wetland adjacent to Nesenkeag Brook. Role in detaining and storing water along waterway.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 6, 10, 12		Moderate role in sediment/toxication reduction. Ponded area in brook detains water from continuing along waterway; wetland located within aquifer boundary.
Nutrient Removal		X	2, 3, 5, 13		Wetland function moderate in nutrient removal; functions as ponded area within waterway.
Production Export		X	1, 8, 10		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9, 14, 15	X	Food sources exist, vegetation density high. Ponded area within waterway offer diverse community structure to wildlife.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.24 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PFO1C, PEM/SS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 98
Latitude 42.833915 Longitude -71.404916
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 15		Low function in groundwater recharge/discharge. Small wetland located within an aquifer boundary. Connected to wetland #97 and 101.
Floodflow Alteration		X	6, 7, 10		Wetland adjacent to Nesenkeag Brook. Small role in detaining and storing water along waterway due to its location in a broad, flat area.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 12		Moderate role in sediment/toxication reduction. Ponded area in brook detains water from continuing along waterway; wetland located within aquifer boundary.
Nutrient Removal		X	3, 5		Wetland function low in nutrient removal.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 13	X	Food sources exist, vegetation density high. Vernal Pool present within wetland. In close proximity to Nesenkeag Brook and other wetland areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.06 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PFO1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 99
Latitude 42.834108 Longitude -71.404547
Prepared by: LGJ Date 04/09/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15		Small wetland located within an aquifer boundary. Connected to wetland #97 and 101.
Floodflow Alteration	X		6, 7, 9, 10	X	Wetland adjacent to Nesenkeag Brook. Small role in detaining and storing water along waterway due to its location in a broad, flat area.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 12		Moderate role in sediment/toxication reduction. Ponded area in brook detains water from continuing along waterway; wetland located within aquifer boundary.
Nutrient Removal		X	3, 4, 8		Wetland function low in nutrient removal.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13	X	Food sources exist, vegetation density high. In close proximity to Nesenkeag Brook and other wetland areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.58 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, ROW, Residential Distance to nearest roadway or other development 25 feet

Dominant wetland systems present PFO1E, PAB3G Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 101
Latitude 42.834553 Longitude -71.405132
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 10, 15		Ponded area that feeds into a small branch off of the Nesenkeag Brook. Boarders an aquifer boundary. Very poorly drained soils present.
Floodflow Alteration	X		3, 5, 6, 7, 8, 9, 10, 13	X	Wetland detains water before entering Nesenkeag Brook. Very poorly drained soils, high water storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 3, 4, 6, 10, 12		Moderate role in sediment/toxication reduction. Ponded area detains water from continuing along waterway to Nesenkeag Brook; wetland located along boarder of aquifer boundary.
Nutrient Removal	X		3, 4, 5, 7		Wetland function moderate in nutrient removal. Very poorly drained soils present.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 13	X	Food sources exist, vegetation density high. In close proximity to Nesenkeag Brook and other wetland areas. Wetland contains aquatic bed habitat/ponded water.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0,8, 0.6, 0.3 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, ROW, Residential Distance to nearest roadway or other development 25 feet

Dominant wetland systems present PFO1C, PEM/SS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 102, 102A, 102C
Latitude 42.835155 Longitude -71.405794
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15	X	Topographically located above wetland #101. Moderately well drained soils. Located within aquifer boundary.
Floodflow Alteration		X	6, 14		Wetland function low in floodflow alteration. Topography relatively flat, retains small amounts of water.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3	X	Moderate role in sediment/toxication reduction. Topography relatively flat, retains small amounts of water. Located adjacent to active farm operation.
Nutrient Removal	X		3, 4, 9	X	Wetland function moderate in nutrient removal. Diverse plant species present, including dense, woody stems. Located adjacent to active farm operation.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13, 15	X	Food sources exist, vegetation density high. Vernal pool identified within wetland.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.56 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential, Agricultural Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PEM1F Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 104
Latitude 42.838385 Longitude -71.409197
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15		Ponded wetland; saturation visible. Located within aquifer boundary.
Floodflow Alteration	X		3, 6, 7, 8, 9, 14	X	Wetland ponded during portions of the year. Topography relatively flat and retains water from surrounding watershed. Receives run-off from intermittent channel to the east.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 5, 6		Topography relatively flat, retains water within ponded area. Long-term water storage available. Receives run-off from developed parcels to the east.
Nutrient Removal	X		2, 3, 4, 5		Wetland function moderate in nutrient removal. Excess nutrient sources from agricultural fields possible. Ponded area provides possible excess storage location.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		8, 12		Food sources exist. Wetland contains surface water (flooded) throughout portions of the year.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.4,0.03,0.2 Human made? Yes Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential, Agricultural Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PFO1B, PUB2H Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 105, 105A, 105B
Latitude 42.840162 Longitude -71.409872
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15		Portion of wetland complex ponded; saturation visible. Located within aquifer boundary.
Floodflow Alteration	X		3, 6, 7, 8, 9, 14	X	Portion of wetland complex ponded. Topography relatively flat. Receives run-off from surrounding residential/agricultural areas.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 5, 6	X	Topography relatively flat, retains water within ponded area. Long-term water storage available. Receives run-off from surrounding residential/agricultural areas.
Nutrient Removal	X		2, 3, 4, 5	X	Wetland function moderate in nutrient removal. Excess nutrient sources from agricultural fields possible. Ponded area provides possible excess storage location.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		8, 12		Food sources exist, vegetation density high. Vernal pool identified within wetland.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.70 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use ROW, Residential, Athletic Fields Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PSS1C, PSS1F Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 106
Latitude 42.848364 Longitude -71.417584
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 15		Portions of wetland flooded; wetland associated with perennial stream and several intermittent streams. Located within aquifer boundary. Soil composed of sand and gravel.
Floodflow Alteration	X		6, 7, 8, 9, 10, 13, 14, 16	X	Portions of the wetland detains and regulates flow of water within watercourse. Soil composed of sand and gravel. Beaver activity present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 5, 6, 10, 11, 12, 16	X	Water moves slowly through wetland complex via braided channels. Topography relatively flat. Some long-term water storage available.
Nutrient Removal	X		3, 4, 5, 8, 9,12, 13, 14	X	Water moves slowly through wetland complex via braided channels. Topography relatively flat. Some long-term water storage available. Source of excess nutrients unknown.
Production Export		X	1, 4, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization	X		1, 3, 4, 5, 7, 12, 13	X	Wetland located along an unnamed perennial stream channel.
Wildlife Habitat	X		6, 7, 8, 9, 13, 17	X	Food sources exist. Beaver activity observed. Within tier 1 and 2 for top ranked critical habitat priority areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.85 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential, Athletic Fields Distance to nearest roadway or other development 1200 feet

Dominant wetland systems present PEM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 108
Latitude 42.850591 Longitude -71.419350
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5,15	X	GW Recharge. Located within aquifer boundary. Wetland located in depressional area, contains mucky soils and emergent vegetation. Wetland retains water, not outlet present.
Floodflow Alteration	X		5, 6, 9, 18	X	Wetland function limited due to size and lack of contributing watercourses.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 5, 9		Topography relatively flat, wetland retains water. Surrounded by sandy disturbed areas. Long-term water storage available.
Nutrient Removal	X		3, 5, 6, 8, 9		Topography relatively flat, wetland retains water. Long-term water storage available.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 13		Wetland located within tier 1 and 2 for top ranked critical habitat priority areas; however function/value low due to size and location.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.12 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW Distance to nearest roadway or other development ~50'

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. OR3
Latitude 42.852133 Longitude -71.421754
Prepared by: KPW Date 05/29/15
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	4, 15		Wetland is small, gw recharge/discharge potential is very low.
Floodflow Alteration		X	5, 9		Wetland function absent due to size and lack of contributing watercourses.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 4		Topography relatively flat, receives surface run-off from adjacent roadway. Size limits function.
Nutrient Removal		X	8, 9		Topography relatively flat, however lack of source of excess nutrients.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 13	X	Wetland located within NHNHB occurrence area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.05 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Forest, Residential Distance to nearest roadway or other development >500 ft.

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 109
Latitude 42.851384 Longitude -71.419032
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	4, 5,15	X	Wetland does not contribute to gw recharge/discharge function.
Floodflow Alteration		X	7	X	Wetland does not provide flood storage based on small size and location.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2		Wetland does not provide this function due to small size and location
Nutrient Removal	X		4		Wetland does not provide this function due to small size and location
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7		Wetland does not provide this function due to small size and location
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.79 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 110
Latitude 42.852124 Longitude -71.418198
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 9, 15	X	Located within aquifer boundary. Large emergent system.
Floodflow Alteration	X		3, 5, 6, 7, 9, 10, 13, 14, 15	X	Large emergent wetland system within relatively flat area, associated with unnamed perennial stream. Channel is not well defined through wetland, constricted outlet present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 6, 9,10, 11,14,16	X	Topography relatively flat, large emergent wetland system. Water flow diffuse through wetland. Located adjacent to roadway and residential parcels.
Nutrient Removal	X		3, 5, 7, 8, 9,12, 13, 14	X	Wetland function moderate in nutrient removal. Ponded area provides possible excess storage location.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization	X		5, 7, 12, 13		Wetland is associated with unnamed perennial stream. Channel is not well defined through wetland.
Wildlife Habitat	X		6, 7, 8, 13		Food sources exist, vegetation density high. Within tier 1 and 2 for top ranked critical habitat priority areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 2.99 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1E, PFO/PSS1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 111
Latitude 42.854397 Longitude -71.417326
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15	X	Located within aquifer boundary. Large wetland complex comprised largely of emergent and scrub-shrub vegetation.
Floodflow Alteration	X		5, 6, 7, 9, 10, 13, 18	X	Large wetland complex with flood storage potential. Associated with perennial stream located outside of study area.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 6, 9, 10, 16	X	Large wetland complex comprised largely of emergent and scrub-shrub vegetation. Extends outside of ROW. Adjacent to residential property and roadway.
Nutrient Removal		X	3, 5, 7, 8, 9	X	Large wetland complex comprised largely of emergent and scrub-shrub vegetation. Extends outside of ROW. Adjacent to residential property and roadway.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody within the study area.
Wildlife Habitat	X		6, 7, 8, 13		Food sources exist, vegetation density high. Within tier 1 for top ranked critical habitat priority areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.89 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 150 feet

Dominant wetland systems present PSS1B, PFO1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 112
Latitude 42.854747 Longitude -71.416441
Prepared by: LGJ Date 12/12/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5, 15		Located within aquifer boundary.
Floodflow Alteration	X		6, 7, 9, 18	X	Wetland has some flood storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 4		Wetland lacks of source of excess sediments/toxicants. Long duration water retention is limited.
Nutrient Removal		X	7, 8		Wetland lacks source of excess nutrients. Long duration water retention is limited.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13		Food sources exist, vegetation density moderate. Located just outside tier 1 for top ranked critical habitat priority areas.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.04 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential, Forest Distance to nearest roadway or other development 150 feet

Dominant wetland systems present PEM/SS1E, PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 114
Latitude 42.858416 Longitude -71.414859
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland contains variable water levels, adjacent to larger flooded wetland system located just outside of the ROW. Close proximity to an aquifer boundary.
Floodflow Alteration	X		2, 3, 5, 6, 7, 9, 10, 18	X	Wetland appears to be fed by drainage from neighboring residential properties to the east. Also may receive excess floodwater from large system to the west.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 4		Wetland function low in sediment/toxication retention.
Nutrient Removal		X	3, 4, 7, 8, 9		Wetland function low in nutrient removal.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13,18	X	Food sources exist, veg density high. Field identified potential vernal pool located within wetland boundary.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.90 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential, Forest Distance to nearest roadway or other development 150 feet

Dominant wetland systems present PFO1B, PEM1E, PFO1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 115
Latitude 42.860169 Longitude -71.413684
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15	X	Recharge-Wetland associated with large flooded complex just outside (west of) the project ROW. Wetland is within close proximity to an aquifer boundary.
Floodflow Alteration	X		2, 3, 5, 6, 7, 9, 10, 18	X	Small pockets of ponded water visible. Wetland associated with large flooded complex. Slow water movement through wetland due to relatively flat topography.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 6		Slow water movement through wetland. Small pockets of ponded water visible. Wetland able to retain water. Wetland contains dense emergent vegetation.
Nutrient Removal	X		3, 4, 5, 7, 8, 9		Wetland function moderate in nutrient removal.
Production Export		X	1, 7, 8		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9	X	Food sources exist, vegetation density high. Open water present. Wetland contains interspersion of wetland classes.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.4, 0.4, 0.5 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Residential, Forest Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PEM/SS1C,E, PFO5H,1C, PEM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Beginning

How many tributaries contribute to the wetland? 2 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 117, 117A, 117B
Latitude 42.867044 Longitude -71.409324
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 15		Intermittent channel associated with wetland complex. Wetland contiguous to large flooded complex to the west of the project ROW. Open-water area composed of mucky peat soils.
Floodflow Alteration	X		5, 6, 7, 9, 10, 13, 18	X	Large emergent wetland complex with open water component.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 10, 12, 14, 15, 16		Water moves slow through wetland; wetland contains dense emergent and scrub-shrub vegetation. Wetland may receive run-off from residential properties to the east.
Nutrient Removal	X		2, 3, 4, 5, 6, 7, 8, 9,14		Slow-moving waters of wetland and soil type create potential for nutrient removal function. Wetland may receive run-off from residential properties to the east.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9, 11, 12, 14, 15	X	Food sources exist, vegetation density high. Plant species and community structure diverse. Large open-water area.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.01 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PSS1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 120
Latitude 42.867110 Longitude -71.409726
Prepared by: LGJ Date 1/20/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	4, 5, 15		Wetland does not contribute to gw recharge/discharge function.
Floodflow Alteration		X	9		Wetland does not provide flood storage based on small size and location.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2		Wetland does not provide this function due to small size and location.
Nutrient Removal		X	4		Wetland does not provide this function due to small size and location.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7		Wetland does not provide this function due to small size and location
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Very small isolated wetland confined within ROW limits.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.02 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Roadway, ROW, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 123
Latitude 42.869227 Longitude -71.408395
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	4, 5, 15		Wetland does not contribute to gw recharge/discharge function.
Floodflow Alteration		X	9		Wetland does not provide flood storage based on small size and location.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 2, 4		Wetland does not provide this function due to small size and location.
Nutrient Removal		X	4		Wetland does not provide this function due to small size and location.
Production Export		X	1		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7		Wetland does not provide this function due to small size and location
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Small isolated wetland located adjacent to residential driveway with ROW.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.96 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PSS/EM1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 124
Latitude 42.871049 Longitude -71.406883
Prepared by: LGJ Date 05/12/2015
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 5, 15		Wetland exhibits signs of variable water levels.
Floodflow Alteration		X	6, 9, 18	X	Some flood storage capacity due to wetland's position within the landscape; however function/value low due to wetland size.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	-------		Wetland is not effective in sediment/toxicant retention due to small size and location.
Nutrient Removal		X	3, 4, 5, 8		Wetland is not effective in nutrient removal due to small size and location.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13	X	High vegetation density, potential food sources available. Wetland function reduced due to size and location.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.05 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 10 feet

Dominant wetland systems present PSS1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 125
Latitude 42.873629 Longitude -71.405869
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5, 15		Wetland is small roadside drainage swale. Little to no function/value.
Floodflow Alteration		X	5, 9		Wetland receives roadway run-off. Wetland is not suitable for flood storage based on size and characteristics.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	-------		Wetland is not suitable for this function based on size and characteristics.
Nutrient Removal		X	4		Wetland is not suitable for this function based on size and characteristics.
Production Export		X	1		Wetland is not a food source.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	------		Wetland is not suitable for this function based on size and characteristics.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Narrow isolated scrub-shrub wetland swale.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.11 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 127
Latitude 42.874037 Longitude -71.406341
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15	X	Wetland borders an aquifer boundary. Wetland located along gradual slope, low function/ value due to size.
Floodflow Alteration		X	5		Wetland does not provide flood storage due to size and location.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 6		Function negligible due to size, location, and wetland plant composition.
Nutrient Removal		X	4		Function negligible due to size, location, and wetland plant composition.
Production Export		X	1, 8		Wetland is not effective in producing food for living organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 5, 8		Wetland located adjacent to large emergent/scrub-shrub complex.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 7.5, 0.2 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Road, ROW, Residential, Field Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM/PSS1C,E, PEM1F, PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 3 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 128, 128A
Latitude 42.875423 Longitude -71.405060
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 9, 15	X	Recharge - Wetland is a large emergent/scrub-shrub complex that extends outside of the project ROW. Located along edge of aquifer boundary. Majority of soil very poorly drained.
Floodflow Alteration	X		5, 6, 7, 9, 10, 13, 14, 16, 18	X	Wetland is effective at slowing water movement within the landscape and has a large flood storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1-5,10,11,12,13,14, 15,16	X	Slow water movement through wetland, poorly drained soils present. Several channels feed wetland. Dense emergent and scrub-shrub vegetation exists. Surrounding area developed.
Nutrient Removal	X		2, 3, 4, 5, 6, 7,9,12,13,14	X	Slow water movement through wetland, poorly drained soils present. Several channels feed wetland. Dense emergent and scrub-shrub vegetation exists. Surrounding area developed.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization	X		3, 4, 5, 7, 12, 13		Streams associated with wetland are small and diffuse/sinuous.
Wildlife Habitat	X		6, 7, 8, 9, 13, 14	X	Large complex within conservation easement boundaries. Food sources exist, vegetation density high. Function somewhat reduced due to proximity to roadway and development.
Recreation		X	1		Wetland is located within the Musquash Conservation area; however the wetland provides little to no recreational value due to location within an existing electric utility ROW corridor.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research due to location within an existing electric utility ROW corridor.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 5.61 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PSS1C, PSS1E, PSS/PEM1C,E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 132
Latitude 42.876737 Longitude -71.400043
Prepared by: LGJ Date 12/15/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5,15		Wetland is hydrologically connected to 128 via culvert underneath High Range Road. Signs of variable water levels present.
Floodflow Alteration	X		3, 5, 6, 7, 9, 10, 18	X	Large emergent/scrub-shrub complex. Broad, flat topography; ideal for high water storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 6, 14	X	Wetland is effective is slowing and retaining water. Wetland contains dense emergent and scrub-shrub vegetation. Wetland surrounded by roadway and residential areas.
Nutrient Removal	X		3, 4, 7, 8, 9, 12	X	Wetland is effective is slowing and retaining water. Wetland contains dense emergent and scrub-shrub vegetation. Wetland surrounded by roadway and residential areas.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 9,13		High vegetation density, food source potential. Function/value reduced somewhat due to location.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.58 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, ROW, Residential Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PFO1C, PEM1E, PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 133

Latitude 42.877494 Longitude -71.397035

Prepared by: LGJ Date 12/16/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland exhibits signs of variable water levels.
Floodflow Alteration	X		5, 6, 7, 9, 18	X	Some flood storage capacity due to wetland's position within the landscape; however function/value low due to wetland size.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 4		Wetland is not effective in sediment/toxicant retention due to small size and location.
Nutrient Removal		X	3, 5, 7, 8		Wetland is not effective in nutrient removal due to small size and location.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13		High vegetation density, potential food sources available. Wetland function reduced due to size and location.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 8.65 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PEM1G,PSS1E,PSS/EM1E,PFO1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 137

Latitude 42.878193 Longitude -71.392200

Prepared by: LGJ Date 12/16/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15	X	Recharge. Large emergent wetland complex. Slow water movement, long duration water retention. Variable water levels, poorly drained soil.
Floodflow Alteration	X		2, 5, 6, 7, 9, 10, 14, 18	X	Large emergent wetland complex with interspersed braided/diffuse channels. Variable water levels, poorly drained soil. Flat topography.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 3, 4, 5, 13, 14, 16	X	Slow-moving water movement, poorly drained soil and dense vegetation make wetland effective in sediment/toxication retention. Developed areas located to the north and south.
Nutrient Removal	X		3, 5, 7, 8, 9, 12, 14	X	Slow-moving water movement, poorly drained soil and dense vegetation make wetland effective in nutrient removal. Developed areas located to the north and south.
Production Export		X	1, 7		Wetland function low in producing food for organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 11, 13	X	High vegetation density, potential food sources exist. Large complex extends outside of ROW. Other wetland systems located nearby.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.1, 0.09 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, ROW, Residential Distance to nearest roadway or other development 300 feet

Dominant wetland systems present PFO1C (141), PSS1B (143) Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 141, 143
Latitude 42.878651 Longitude -71.389278
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5		Wetland does not contribute to GW recharge/discharge function.
Floodflow Alteration		X	5, 6, 9		Wetland does not provide flood storage based on small size and location..
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 4		Wetland not effective in providing this function due to small size, location and vegetation composition.
Nutrient Removal		X	4, 8		Wetland not effective in providing this function due to small size, location and vegetation composition.
Production Export		X	1, 7		Wetland is not effective in producing food for living organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 13		Function significantly reduced due to size and location.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Small isolated wetlands within ROW, provide little to no function/value.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 10.94 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 300 feet

Dominant wetland systems present PEM/SS1E,PFO5E,PSS1B,PFO1E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 144

Latitude 42.879545 Longitude -71.385034

Prepared by: LGJ Date 12/16/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15	X	Recharge - Wetland is a large complex dominantly comprised of dense emergent/scrub vegetation. Water movement is slow through wetland.
Floodflow Alteration	X		5, 6, 7, 9, 10, 14, 18	X	Wetland part of a large complex. Very poorly drained soils/mucky peat. Broad, flat topography; ideal for high water storage capacity. Slow moving water present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5, 10, 12, 14	X	High function in sediment/toxicaton removal due to soil type and broad, flat topography in wetland. Slow moving water present.
Nutrient Removal	X		3, 4, 5, 7, 8, 9, 12	X	High function in nutrient removal due to soil type and broad, flat topography in wetland. Sources of excess nutrients surround wetland. Slow moving water present.
Production Export		X	1, 7, 8		Wetland function low in producing food for organisms. Diverse and abundant plant community.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9, 11, 13, 14	X	High vegetation density, food sources available. Wetland contains interspersion of vegetation classes. Other wetland systems present nearby.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 11.53 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PEM1F,PEM/SS1E,PEM1E,PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 146A

Latitude 42.882367 Longitude -71.379120

Prepared by: LGJ Date 12/16/2014

Wetland Impact:

Type See Table Area See Table

Evaluation based on:

Office X Field X

Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 7, 15	X	Wetland associated with large complex to the west. Very poorly drained soils/mucky peat. Receives and retains water from surrounding watershed. Aquifer boundary nearby.
Floodflow Alteration	X		5, 6, 7, 8, 9, 10, 13, 14	X	Wetland part of large complex. Very poorly drained soils/mucky peat. Broad, flat topography; ideal for high water storage capacity. Slow moving water present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 10, 12, 14, 15	X	High function in sediment/toxicaton removal due to soil type and broad, flat topography in wetland. Slow moving water present.
Nutrient Removal	X		3, 4, 5, 7, 8, 9, 12, 14	X	High function in nutrient removal due to soil type and broad, flat topography in wetland. Potential sources of excess nutrients surround wetland. Slow moving water present.
Production Export		X	1, 7		Wetland function low in producing food for organisms. Diverse and abundant plant community.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		6, 7, 8, 9, 11, 13, 14	X	Wetland large in size and associated with complex to the west. High vegetation density, food sources available. Interspersion of vegetation classes present.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.02 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 200 feet

Dominant wetland systems present PFO1C, PEM/SS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 147
Latitude 42.891243 Longitude -71.366166
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15	X	Groundwater discharge.
Floodflow Alteration		X	5, 9, 18		Wetland function low in floodflow alteration. Located along gradual slope, minimal flood storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 4, 6		Little to no function due to lack of sources nearby and the wetland being entirely confined within the ROW.
Nutrient Removal	X		3, 5, 8, 9		Function limited due to lack of sources of excess nutrients.
Production Export		X	1, 7		Wetland is not significant in providing food sources to living organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	8, 13		Does not provide viable wildlife habitat based on location (entirely confined within an existing cleared ROW) and size.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 3.97, 5.89 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1E,G,H, PSS1B,C, PFO5F,G Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 149, 149A
Latitude 42.894213 Longitude -71.362410
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 5, 15		Wetland partly made up of stony soils and mucky peat/very poorly drained soils. Larger areas of ponded water present.
Floodflow Alteration	X		5, 6, 7, 9, 18	X	Wetland partly made up of stony soils and mucky peat/very poorly drained soils. Larger areas of ponded water present. High water storage potential.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5,14	X	Wetland partly made up of stony soils & mucky peat/very poorly drained soils. Ponded water present. Dense emergent/scrub-shrub vegetation present. Close proximity to roadways.
Nutrient Removal	X		2, 3, 4, 5, 7, 8, 9, 12	X	Wetland partly made up of stony soils & mucky peat/very poorly drained soils. Ponded water present. Dense emergent/scrub-shrub vegetation present. Close proximity to roadways.
Production Export		X	1, 7		Wetland function low in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat	X		7, 8, 9,11,13, 20	X	Wetland contains interspersion of classes with areas of open water present. Large system extends outside of ROW. Dense vegetation present.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.93 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Rd, Roadway, ROW, Resid, Industrial Distance to nearest roadway or other development 300 feet

Dominant wetland systems present PEM1E, PFO1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 152
Latitude 42.898102 Longitude -71.357645
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Small drainage system located within an aquifer boundary. Evidence of saturation and variable water levels.
Floodflow Alteration	X		3, 5, 6, 7, 9, 18	X	Evidence of saturation and variable water levels, geomorphic position allows for low to moderate storage capacity.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4	X	Gravel/sand operation and industrial businesses are located to the north. It appears there is a hydrological connection between this area and the wetland based on aerial interpretation.
Nutrient Removal	X		3, 4, 5, 7, 8, 9		Wetland function low to moderate based on vegetative composition and geomorphic position.
Production Export		X	1, 7		Wetland function low in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13		Wetland does not provide valuable wildlife habitat.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.07 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Road, Roadway, ROW, Residential Distance to nearest roadway or other development 500 feet

Dominant wetland systems present PSS1B Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 154
Latitude 42.899595 Longitude -71.354453
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5		Little to no function/value due to small size.
Floodflow Alteration	X		7, 9		Minimal flood storage capacity due to small size.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention		X	1, 4		Little to no function/value based on small size, location (confined within ROW), and lack of sources.
Nutrient Removal		X	8, 9		Little to no function/value based on small size, location (confined within ROW), and lack of sources.
Production Export		X	------		Wetland is not a significant source of food for living organisms.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13		Function reduced based on small size and location (confined to cleared ROW).
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes: Small isolated wetland within ROW.

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 1.73 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Rd, Roadway, ROW, Resid/Commerc Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PEM1E, PEM1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 154
Latitude 42.900367 Longitude -71.352328
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table
Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 15		Wetland function low in groundwater recharge/discharge.
Floodflow Alteration	X		3, 5, 6, 7, 9,18	X	Wetland function low to moderate based on size. Wetland located downslope of developed industrial property. Dense emergent and scrub-shrub vegetation exists.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 3, 4, 5, 16	X	Industrial property/business located directly adjacent (upslope of wetland). Property contains a significant amount of cars and equipment based on aerial observations.
Nutrient Removal	X		3, 4, 5, 7, 8, 9		Wetland characteristics make it suitable for this function.
Production Export		X	1, 7		Wetland function low in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13		Wetland function low in providing wildlife habitat due to location (directly adjacent to roadway and developed commercial/industrial properties.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.73 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Access Rd, Roadway, ROW, Resid/Commerc Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PEM1E, PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 160
Latitude 42.900657 Longitude -71.350172
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table
Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5, 15		Wetland is not a discharge wetland. Wetland does not significantly contribute to GW recharge.
Floodflow Alteration	X		5, 6, 7, 9, 10, 18	X	Broad, relatively flat topography allows for some water retention. Appears to be hydrologically connected to expansive Beaver Brook wetland system to northeast based on aerials.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4	X	Wetland directly abuts roadway (NH 28). Commercial/industrial properties located nearby.
Nutrient Removal	X		3, 4, 5, 7, 8, 9		Wetland function low to moderate. Wetland appears to be hydrologically connected to expansive Beaver Brook wetland system to northeast based on aerials.
Production Export		X	1, 7		Wetland function low in production export.
Sediment/Shoreline Stabilization		X	------		Wetland is not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 8, 13		Does not contain suitable wildlife habitat due to location (directly abuts busy roadway).
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 9.07 Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Access Rd, Roadway, ROW, Resid/Commerc Distance to nearest roadway or other development 100 feet

Dominant wetland systems present PFO1E,F,H, PUB2H, PSS/EM1G Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 165
Latitude 42.901923 Longitude -71.344750
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		2, 4, 5, 7, 9,15	X	Very large wetland complex associated with perennial stream channel, Beaver Brook. Located within an aquifer. Large areas of ponded water present. Very poorly drained soils.
Floodflow Alteration	X		5,6,7,9,10,13,14,15,16, 18	X	Broad, relatively flat topo. retains large amounts of water. Densely vegetated. Very poorly drained soils. Associated with perennial stream channel. Areas of ponded water present.
Fish and Shellfish Habitat		X	------		Wetland does not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1-5,10,11,12,13,14,15,16	X	Wetland contains dense emergent and scrub-shrub vegetation. Long duration water retention. Wetland part of very large Beaver Brook complex which extends to the north and south.
Nutrient Removal	X		2,3,4,5,6,7,8,9,12,13,14	X	Contains dense emergent/scrub-shrub vegetation. Long duration water retention. Constricted outlet (beaver). Part of very large Beaver Brook complex which extends to the north and south.
Production Export	X		1, 7, 8, 10		Wetland function moderate in production export.
Sediment/Shoreline Stabilization	X		3, 4, 5, 7, 12, 13		Wetland borders Beaver Brook on both sides.
Wildlife Habitat	X		6,7,8,9,10,11,12,13,14,17	X	Beaver activity present. Associated with perennial stream. Within tier 3, Supporting Landscape, of NH F&G Critical Habitat desig areas. Potential vernal pool located within northern extent.
Recreation		X	------		Wetland does not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetland is not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetland is not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetland does not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

US Army Corps of Engineers
New England District

Wetland Function-Value Evaluation Form

Total area of wetland 0.1, 0.4 Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use ROW, Substation Distance to nearest roadway or other development 50 feet

Dominant wetland systems present PSS1B (166); PEM/SS1E (167) Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. 166, 167
Latitude 42.904074 Longitude -71.344264
Prepared by: LGJ Date 12/16/2014
Wetland Impact:
Type See Table Area See Table

Evaluation based on:
Office X Field X
Corps manual wetland delineation completed? Y X N

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge		X	2, 4, 5, 15		Wetlands are not a discharge/recharge site.
Floodflow Alteration	X		3, 5, 6, 7, 9, 10, 18	X	Wetlands located in flat area downslope of developed substation site. Substation drainage appears to be directed toward wetland via existing outlet at corner of substation.
Fish and Shellfish Habitat		X	------		Wetlands do not contain suitable fish or shellfish habitat.
Sediment/Toxicant Retention	X		1, 2, 4, 16	X	Wetlands consists of dense emergent/scrub-shrub vegetation. Appear to receives stormwater run-off via installed substation drainage infrastructure.
Nutrient Removal	X		3, 5, 7, 8, 9		Suitable based on vegetation composition and location.
Production Export		X	1, 7		Wetlands do not significantly contribute to food source production based on size and location.
Sediment/Shoreline Stabilization		X	------		Wetlands are not located along the banks or shoreline of a waterbody.
Wildlife Habitat		X	7, 13		Wetlands are not suitable for wildlife habitat function due to location (directly adjacent to large active substation).
Recreation		X	------		Wetlands do not provide recreational opportunities.
Educational/Scientific Value		X	------		Wetlands do not effective as a site for outdoor learning or research.
Uniqueness/Heritage		X	------		Wetlands are not unique; exhibits characteristics typical to a utility ROW environment.
Visual Quality/Aesthetics		X	------		Wetlands do not hold aesthetic or visual qualities.
ES Endangered Species Habitat					
Other					

Notes:

* Refer to backup list of numbered considerations.

Adapted from: U.S.Army Corps of Engineers - New England District. 1999. The Highway Methodology Workbook: Supplement: Wetland Functions and Values - A Descriptive Approach. NAEEP-360-1-30a.

Attachment H

Vernal Pool Summary Table & Photographs

MERRIMACK VALLEY RELIABILITY PROJECT - VERNAL POOL SUMMARY TABLE

ID	Associated Wetland	Town	Plan Sheet #	Landscape Setting	Parent Material	Aquatic Resource Type	Pool Canopy Cover %	Predominate Substrate	Approx. Size (LxWxD) Feet	Hydrology		Water Quality	Surrounding Land Use		Species Present*				Clearing Impacts (Square Feet)		Photos	Other Comments
										Est. Hydroperiod	Rhydrological Regime		Within 100'	Within 750'	Spotted Salamander	Blue Spotted Salamander	Wood Frog	Other	Direct	250' Buffer		
VP-38	38	Pelham	35	Wetland Complex	Dense Till	Shrub Wetland	0	Organic Matter	250x120x4	Ear Nov- Late Dec	Permanent	Clear Little Color	25 % Forestland, 75% ROW	75% Forestland, 25% ROW	em (>200)		em (>50)	Fairy Shrimp (c), Caddisfly (f)	0	1,516**	1, 2	Deep Organic bottom
VP-39	39	Pelham	35	Wetland Complex	Dense Till	Forested Wetland	25	Organic Matter	100x70x3	Ear Mar - Ear Jul	Semi-permanent	Clear Little Color	85& Forestland, 15% ROW	75% Forestland, 25% ROW	em (5)		em (7)	Caddisfly (f)	0		3, 4	Old road close, constructed culverted outlet
VP-40	40	Pelham	36	Wetland Complex	Dense Till	Herbaceous Wetland	10	Organic Matter	100x60x4	Ear Sep - Ear Nov	Semi-permanent	Clear Little Color	20% Forestland, 10& Developed, 70% ROW	30% Forestland, 20% Developed, 50% ROW	em (3)			Spring Peeper (a) Dead	279	2,297	5	Appears to be located in a previously excavated area/old borrow pit
VP-43	43	Pelham	38	Upland Depression	Loose Till	Shrub Wetland	0	Mineral Soil	30x20	Ear Mar - Ear Jul	Seasonal	Tannic	100% ROW	30% Forestland, 70% ROW	No Species Present				0	204	N/A	
VP-51	51	Pelham	46	Wetland/Pool Complex	Dense Till	Shrub Wetland	0	Organic Matter	130x100x3	Ear Sep - Ear Nov	Semi-permanent	Clear Little Color	5% Forestland, 95% ROW	30% Forestland, 70% ROW	em(15)		em(30), t (>1,000)		0	2,275	6, 7	
VP-51A	51	Pelham	46	Wetland/Pool Complex	Dense Till	Shrub Wetland	0	Organic Matter	100x70x18	Ear Sep - Ear Nov	Semi-permanent	Clear Little Color	10% Forestland, 90% ROW	30% Forestland, 70% ROW	em(1)		em(50), t(>1,000)		0	0	8	
VP-56	56	Pelham	50	Upland Depression	Loose Till	Shrub Wetland	3	Mineral Soil	50x80x3	Ear Mar - Ear Jul	Seasonal	Clear Little Color	100% ROW	15% Forestland, 5% Developed, 80% ROW			em (10), t (>1,000)		10	2,891	9, 10	
VP-63	63	Windham	56	Upland Depression	Loose Till	Open Water	5	Mineral Soil	15x20x3	Ear Jul - Ear Sept	Seasonal	Clear Little Color	15% Forested, 15% Developed, 65% ROW, 5% Roadway	10% Forestland, 15% Developed, 65% ROW, 10% Road	em(5)		t(100), a(1)		0	2,666	11, 12	
VP-87A	87A	Hudson	70	Wetland Complex	Alluvium	Shrub Wetland	0	Organic Matter	100x60x2	Ear Jul - Ear Sept	Seasonal	Clear Little Color	10% Forested, 90% ROW	15% Forestland, 5% Developed, 75% ROW, 5% Road			em (>50), t (>500)	Caddisfly (c), Diving Beetle, Adult Newt	0	40,943	13	Constricted culverted outlet
VP-88	88	Hudson	70	Wetland Complex	Loose Till	Forested Wetland	80	Organic Matter	200x100x2	Ear Jul - Ear Sept	Seasonal	Tannic	66% Forested, 33% ROW	66% Forestland, 33% ROW	em (>30)	em(>50)	em(>40)		15,227	50,100	14, 15	Completely dries in fall
VP-90	90	Londonderry	71	Upland Depression	Gacial Fluvial	Open Water	5	Mineral Soil	150x80x3	Ear Nov- Late Dec	Permanent	Clear Little Color	40% Forested, 40% ROW, 20% Pond	25% Forestland, 50% ROW, 25% Other	em(21)		em(1)	Crayfish, Bullfrog	475	28,286	16	Part of sand pit complex
VP-92	92	Londonderry	72	Wetland Complex	Loose Till	Shrub Wetland	5	Organic Matter	500x60x3	Intermittently Exp	Permanent	High Algae Content	50% Forestland, 25% Developed, 25% ROW	40% Forestland, 10% Developed, 50% ROW	em(3)			Caddisfly (f)	2,760	47,405	17	Ponded, constricted culverted outlet
VP-98	98	Londonderry	74	Wetland/Pool Complex	Loose Till	Forested Wetland	66	Mineral Soil	80x100x3	Ear Jul - Ear Sept	Seasonal	Tannic	50% Forestland, 50% ROW	50% Forestland, 50% ROW			em(21)	Caddisfly (c), oligochites, small beetle	3,886	98,124**	18, 19	Flooded forested wetland
VP-101	101	Londonderry	74	Wetland/Pool Complex	Loose Till	Forested Wetland	66	Mineral Soil	100x200x3	Ear Jul - Ear Sept	Seasonal	Clear Little Color	70% Forestland, 30% ROW	50% Forestland, 50% ROW	em(20)	em(2)	em(25), t(>100)	Caddisfly (c), small oligochites, small beetle	8,465		20	Flooded forested wetland
VP-102	102	Londonderry	74	Upland Depression, Wetland/Pool Complex	Loose Till	Forested Wetland	100	Organic Matter	35x15x4	Ear Sep - Ear Nov	Seasonal	Clear Little Color			No Species Observed				266		21	Small borrow pit/quarry
VP-114	114	Londonderry	82	Upland Depression, Wetland Complex	Loose Till	Forested Wetland	75	Organic Matter	30x10x2	Ear Jul - Ear Sept	Seasonal	Clear Little Color	15% Forestland, 10& Shrubland, 10% Developed, 65% ROW	20% Forestland, 5% Developed, 75% ROW	em(1)			Caddisfly (f)	423	20,216	22, 23	Small borrow pit/quarry
VP-165	165	Londonderry	102	Wetland Complex	Loose Till	Forested Wetland	20	Organic Matter	175x70x4	Ear Sep - Ear Nov	Seasonal	Clear Little Color	90% Forestland, 20% Shrubland, 10% ROW	20% Forestland, 65% ROW, 15% Substation	em(31)		em(12), a(1)	Caddisfly (f), Spotted Turtle (2)	0	35,412	24, 25	Flooded forested wetland
																		Totals:	**31,791 / 0.7 ac**	**332,335 / 7.6 ac**		

* **EM = Egg Mass; A = Adult; C = Common; F = Few**

** **Vernal Pool 250-foot Buffers Overlap**

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 1: View south of vernal pool (VP-38) located within WA 38. 04/28/2015.

Photo 2: View of wood frog egg masses found within VP-38. 04/28/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 3: View east of vernal pool (VP-39) located within WA 39. 04/21/2015.

Photo 4: View of spotted salamander egg mass found within VP-39. 04/28/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 5: View northeast of vernal pool (VP-40) located within WA 40. 04/28/2015.

Photo 6: View northwest to vernal pool (VP-51) located within WA 51. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 7: View of wood frog egg masses observed within VP-51. 04/29/2015.

Photo 8: View east of vernal pool (VP-51A) located within WA 51. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 9: View southeast of vernal pool (VP-56) located within WA 56. 04/29/2015.

Photo 10: View of wood frog egg mass observed within VP-56. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 11: View east of vernal pool (VP-63) located within WA 63. 04/29/2015.

Photo 12: View of spotted salamander egg mass observed within VP-63. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 13: View southwest of vernal pool (VP-87A) located within WA 87A. 04/28/2015.

Photo 14: View southwest of vernal pool (VP-88) located within WA 88. 04/28/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 15: View of blue spotted salamander egg mass observed within VP-88. 04/28/2015.

Photo 16: View east of vernal pool (VP-90) located within WA 90. 04/28/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 17: View east of vernal pool (VP-92) located within WA 92. 04/28/2015.

Photo 18: View north of vernal pool (VP-98) located within WA 98. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 19: View of wood frog egg mass observed within VP-98. 04/29/2015.

Photo 20: View north of vernal pool (VP-101) located within WA 101. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 21: View south of vernal pool (VP-102) located within WA 102. 04/29/2015.

Photo 22: View west of vernal pool (VP-114) located within WA 114. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 23: View of spotted salamander egg mass observed within VP-114. 04/29/2015.

Photo 24: View south of vernal pool (VP-165) located within WA 165. 04/29/2015.

Vernal Pool Representative Site Photographs
Merrimack Valley Reliability Project
MA/NH State Line to Scobie Pond Substation, NH

Photo 25: View of spotted turtle found within VP-165. 04/29/2015.

Attachment I

Preliminary Project Mitigation Agreement

NHDES PRELIMINARY MITIGATION AGREEMENT FORM

I, **Public Service Company of New Hampshire d/b/a Eversource Energy & New England Power Company d/b/a National Grid**, ("Applicant"), by Vanasse Hangen Brustlin, Inc. (VHB) ("Authorized Agent"),
(Print Applicant name legibly) (Print Authorized Agent name legibly)
and the Department of Environmental Services ("DES") hereby agree to the process described below to streamline the review of Applicant's application for a permit under RSA 482-A.

A **Preliminary Mitigation** package is being submitted with the Standard Dredge and Fill Application in accordance with Env-Wt 501.06 and Env-Wt 800. The package contains the information required as outlined in the DES Compensatory Mitigation Checklist.

The preliminary mitigation proposal type is (please check one or more types):

___ Wetland Restoration
_X_ Upland Buffer Preservation
___ Wetland Creation
_X_ Payment into the Aquatic Resource Mitigation Fund following consideration of the three options noted above and determining them to not be feasible for complete mitigation.

By executing this agreement, DES agrees to accept Applicant's **Preliminary Mitigation** proposal for purposes of determining whether the application is administratively complete. However, the application will not be deemed complete if other basic information is missing, such as the required plans, attachments, and/or fees.

Applicant agrees to submit the final mitigation plans to DES for review by: **No later than 5 months after the NH Site Evaluation Committee deems the MVRP Application to be complete, or in the alternative, a date that DES specifies.**

Applicant and DES, by mutual agreement authorized under RSA 482-A:3, XIV(c)(3), agree to extend the response time for DES to review the final mitigation proposal, once received, to 60 days from receipt of the final mitigation plans.

The applicant agrees that if the information required under Env Wt 800 is not submitted by the date specified in this agreement or 120 days from a Request For More Information by DES, the application will be denied.

I, ___ Applicant _X_ Authorized Agent [check one] hereby certify that the information submitted with the application meets the **Preliminary Mitigation** requirements for the DES Wetlands Bureau to understand the nature and appropriateness of the proposed mitigation.

Sherri Tracy — 6/29/2015
Signature of Applicant or Authorized Agent — Date

The NHDES Wetlands Bureau agrees, by the signature below, that the information submitted meets the **Preliminary Mitigation** requirements, and that technical review of the mitigation proposal will not commence until the required items are submitted before or on the date noted above.

NHDES Wetland Mitigation Coordinator — Date

Revised 6-26-07