



# PUBLIC NOTICE

U.S. Army Corps  
of Engineers

New York District, CENAN-OP-RU

Upstate Regulatory Field Office

1 Buffington Street, Bldg. 10, 3<sup>rd</sup> Fl. North

Watervliet, New York 12189-4000

**In replying refer to:**

Public Notice Number: NAN-2017-01372-USH

Issue Date: December 19, 2018

Expiration Date: January 16, 2019

**To Whom It May Concern:**

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S. C. 1344).

**APPLICANT:** Greenway Conservancy for the Hudson River Valley  
625 Broadway, 4<sup>th</sup> Floor  
Albany, New York 12207

**ACTIVITY:** Discharge of fill material into waters of the United States to facilitate the construction of a 36-mile pedestrian and bicycle trail

**WATERWAY:** Wetlands and Tributaries (Hudson River Watershed)

**LOCATION:** City of Rensselaer, Village of Nassau, and Towns of East Greenbush, Schodack, and Nassau, Rensselaer County, New York  
Towns of Chatham, Kinderhook, Stuyvesant, Stockport, and Greenport, and Villages of Valatie and Kinderhook, Columbia County, New York

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO THE ATTENTION OF BRAD SHERWOOD AT THE ABOVE ADDRESS, OR SENT VIA ELECTRONIC MAIL TO [Brad.Sherwood@usace.army.mil](mailto:Brad.Sherwood@usace.army.mil), TO REACH THIS OFFICE BY THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to adversely affect any Federally endangered or threatened species or their critical habitat. Pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the GIS resources map on the N.Y.S. Office of Parks, Recreation and Historic Preservation (SHPO) website, the project site is located within areas identified by the SHPO as "Archeo Sensitive Areas". Further consultation with SHPO regarding these "Archeo Sensitive Areas" is being conducted and will be concluded prior to the final decision.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.

Pursuant to Section 307 (c) of the Coastal Zone Management Act of 1972 as amended [16 U.S.C. 1456 (c)], for activities under consideration that are located within the coastal zone of a state which has a federally approved coastal zone management program, the applicant has certified in the permit application that the activity complies with, and will be conducted in a manner that is consistent with, the approved state coastal zone management program. By this public notice, we are requesting the state's concurrence with, objection to, or waiver of the applicant's certification. No permit decision will be made until one of these actions occur. For activities within the coastal zone of New York State, the applicant's certification and accompanying information is available from the Consistency Coordinator, New York State Department of State, Division of Coastal Resources and Waterfront Revitalization, Coastal Zone Management Program, One Commerce Plaza, 99 Washington Avenue, Albany, New York 12231, Telephone (518) 474-6000. Comments regarding the applicant's certification, and copies of any letters to this office commenting upon this proposal, should be so addressed.

In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

In order for us to better serve you, please complete our Customer Service Survey located at:

<http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact Brad Sherwood of this office at (518) 266-6355.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>



**For and in behalf of**

Stephan A. Ryba  
Chief, Regulatory Branch

Enclosures



## **WORK DESCRIPTION**

The applicant, Greenway Conservancy for the Hudson River Valley, Inc., has requested Department of the Army permit for the discharge of fill material into waters of the United States to facilitate the construction of a 36-mile pedestrian and bicycle trail, which begins at the northern end in the City of Rensselaer, Rensselaer County, New York and ends in the Town of Greenport, Columbia County, New York, while crossing through multiple municipalities within both Rensselaer and Columbia Counties.

The work would involve the discharge of fill material into a total of 2.04 acres of wetlands, including palustrine emergent (1.79), scrub-shrub (0.23), and forested (0.01) wetlands, and 968 linear feet of stream channel, for the construction of a 36-mile pedestrian and bicycle trail. The trail would be comprised of 27 miles of off-road, utilizing the alignment of a historic trolley route that is currently maintained as an electric utility corridor, and would include the construction of six bridge crossings. The bridge crossings would be constructed over the Moordener Kill at one location and over the Valatie Kill at five locations along the proposed alignment. The remaining 9 miles would be comprised of on-road bike paths, sidewalks, and sidepaths, utilizing local, county, and state roadways where improvements would be made as needed to provide safe crossings and minimize conflicts with motor vehicles. In addition, the project would include the construction of up to ten trailhead locations, including parking areas and signage, along with benches, kiosks, and other bicycle-related facilities.

To mitigate for the proposed impacts to aquatic resources, the applicant proposes off-site mitigation at Schodack Island State Park, located along the Hudson River, in the Town of Stuyvesant, Columbia County. The proposed mitigation would include the excavation of a 575 linear foot side channel through historic dredge spoils, thereby re-establishing a direct connection between the Hudson River and Schodack Creek. In addition, approximately 1.70 acres of tidal and intertidal wetlands are proposed to be established alongside the channel cut.

The stated purpose of this project is to provide residents and visitors with a new pedestrian and bicycle recreational trail in Rensselaer and Columbia Counties.





### Revised Overall Alignment Albany-Hudson Electric Trail (AHET)



#### Legend

- Shared Use Path
- Sidepath
- Sidewalk
- Bike Lanes
- Shared Shoulders
- Walk/Bike Roadway
- Shared Roadway
- NG ROW Not Used
- Village Boundary
- Municipal Boundary
- County Boundary



0 0.5 1 2 3 Miles

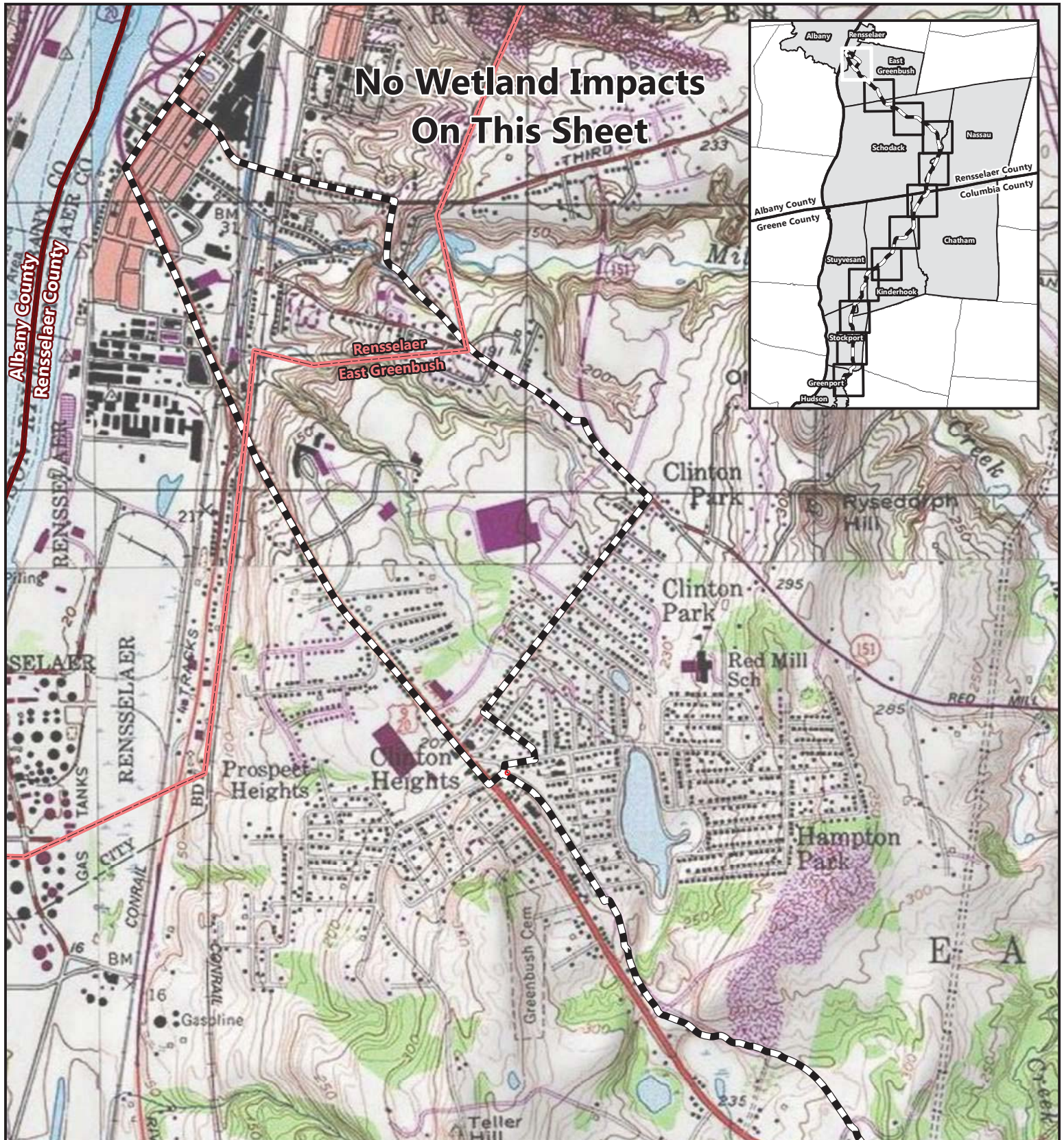
August 15, 2018

## Project Impact Tables

Updated Federal Wetland Impacts Based Upon Cover Type					
Wetland ID	Permanent Fill (Acreage)			Grand Total (Acreage)	Figure Sheet #
	PEM <sup>1</sup>	PSS <sup>1</sup>	PFO <sup>1</sup>		
A	0.015	0	0	0.015	4.3.1
B	0.017	0	0	0.017	4.3.2
D	0	0.018	0	0.018	4.3.3
2O	0	0.03	0	0.03	4.3.4
F	0.189	0	0	0.189	4.4.1
H	0.025	0	0	0.025	4.4.2
I	0.126	0	0	0.126	4.4.3
J	0.001	0	0	0.001	4.5.1
O	0	0	0.013	0.013	4.6.1
P	0.004	0	0	0.004	4.6.2
S	0.015	0	0	0.015	4.7.1
T	0.01	0	0	0.01	4.7.2
U	0.022	0	0	0.022	4.7.2
V	0	0.032	0	0.032	4.7.3
X	0.034	0.053	0	0.087	4.7.4
Y	0	0.02	0	0.02	4.7.5
Z	0	0.065	0	0.065	4.7.6
3B	0.027	0	0	0.027	4.9.1
3C	0.002	0	0	0.002	4.9.2
3D	0.374	0	0	0.374	4.9.3
3E	0.034	0	0	0.034	4.9.4
6A	0.09	0	0	0.09	4.10.1
6D	0.011	0	0	0.011	4.10.2
6B	0.01	0.008	0	0.018	4.10.3
6C	0.078	0	0	0.078	4.10.3
3G	0.041	0	0	0.041	4.10.4
3H	0.001	0	0	0.001	4.10.5
3I	0.001	0	0	0.001	4.10.5
3J	0.065	0	0	0.065	4.10.6
3K	0.021	0	0	0.021	4.10.7
3L	0.009	0	0	0.009	4.10.8
3M	0.251	0	0	0.251	4.10.9
3N	0.041	0	0	0.041	4.10.10
3O	0.181	0	0	0.181	4.10.11
2H	0.007	0	0	0.007	4.11.1
2E	0.001	0	0	0.001	4.11.2
2D	0.004	0	0	0.004	4.11.3
2C	0	0.006	0	0.006	4.11.4
2B	0	0.001	0	0.001	4.11.5
2A	0.01	0	0	0.01	4.12.1
4A	0.002	0	0	0.002	4.12.2
4B	0.001	0	0	0.001	4.12.2
4C	0.023	0	0	0.023	4.12.3
4E	0.003	0	0	0.003	4.12.4
4G	0.001	0	0	0.001	4.12.5
4H	0.004	0	0	0.004	4.12.6
AJ	0.04	0	0	0.04	4.12.7
Total	1.791	0.233	0.013	2.037	

Impacts Below OHW From Bridge Construction			
Location	Volume Below OHW (CY)	Area of Impact (sf)	Area of Impact (acres)
Bridge A	121.02	1025.17	0.024
Bridge B	0	0	0.000
Bridge C	106.15	827.9	0.019
Bridge D	175.8	388.4	0.009
Bridge E	184.75	1130.3	0.026
Bridge F	41.93	175.89	0.004
<b>TOTAL</b>	<b>629.65</b>	<b>3547.66</b>	<b>0.081</b>





**Figure 4.1 - Wetland Impacts  
City of Rensselaer & Town of East Greenbush - Rensselaer County**



Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

### Legend

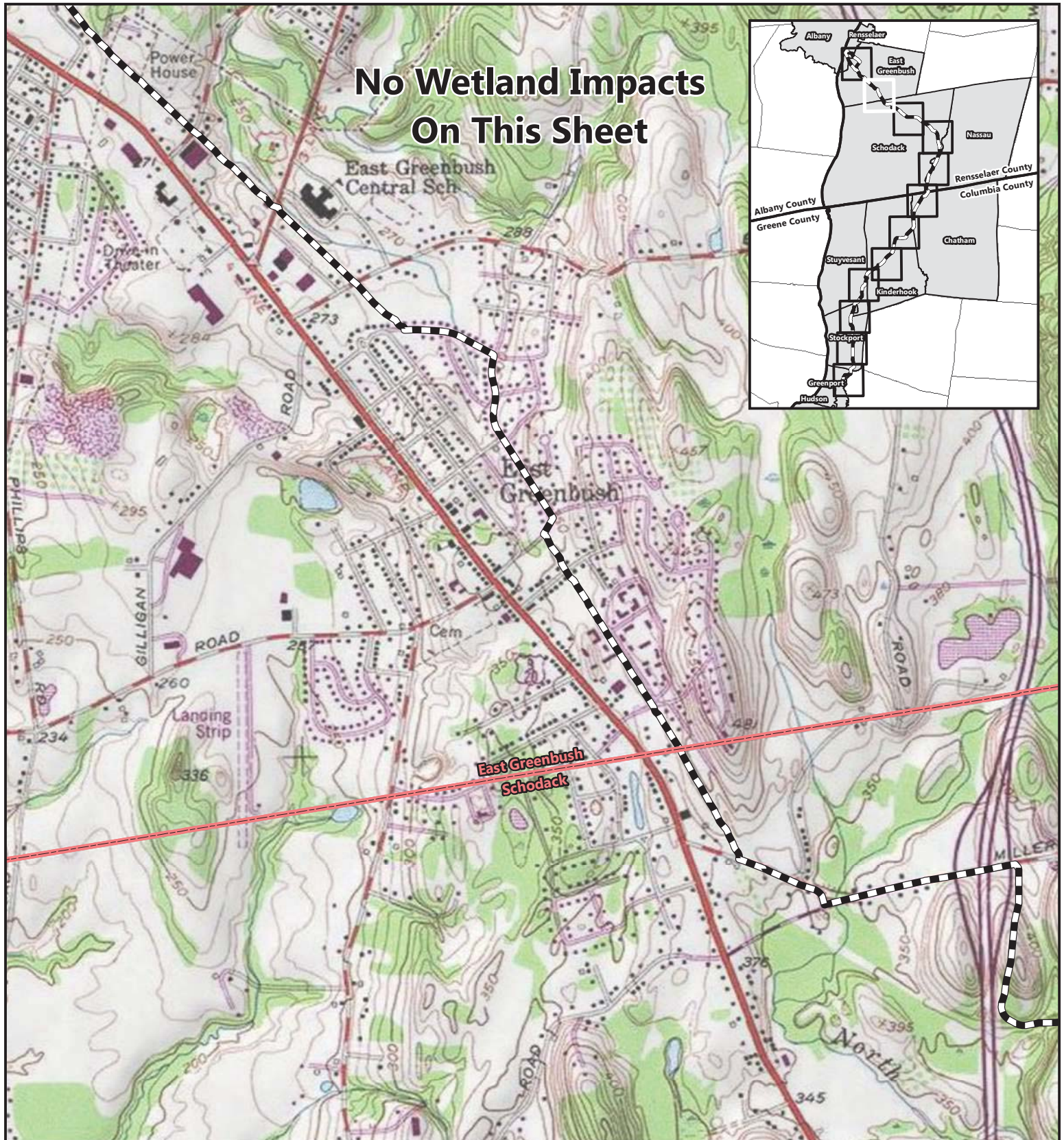
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018



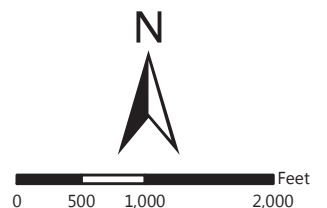


**Figure 4.2 - Wetland Impacts  
Towns of East Greenbush & Schodack - Rensselaer County**



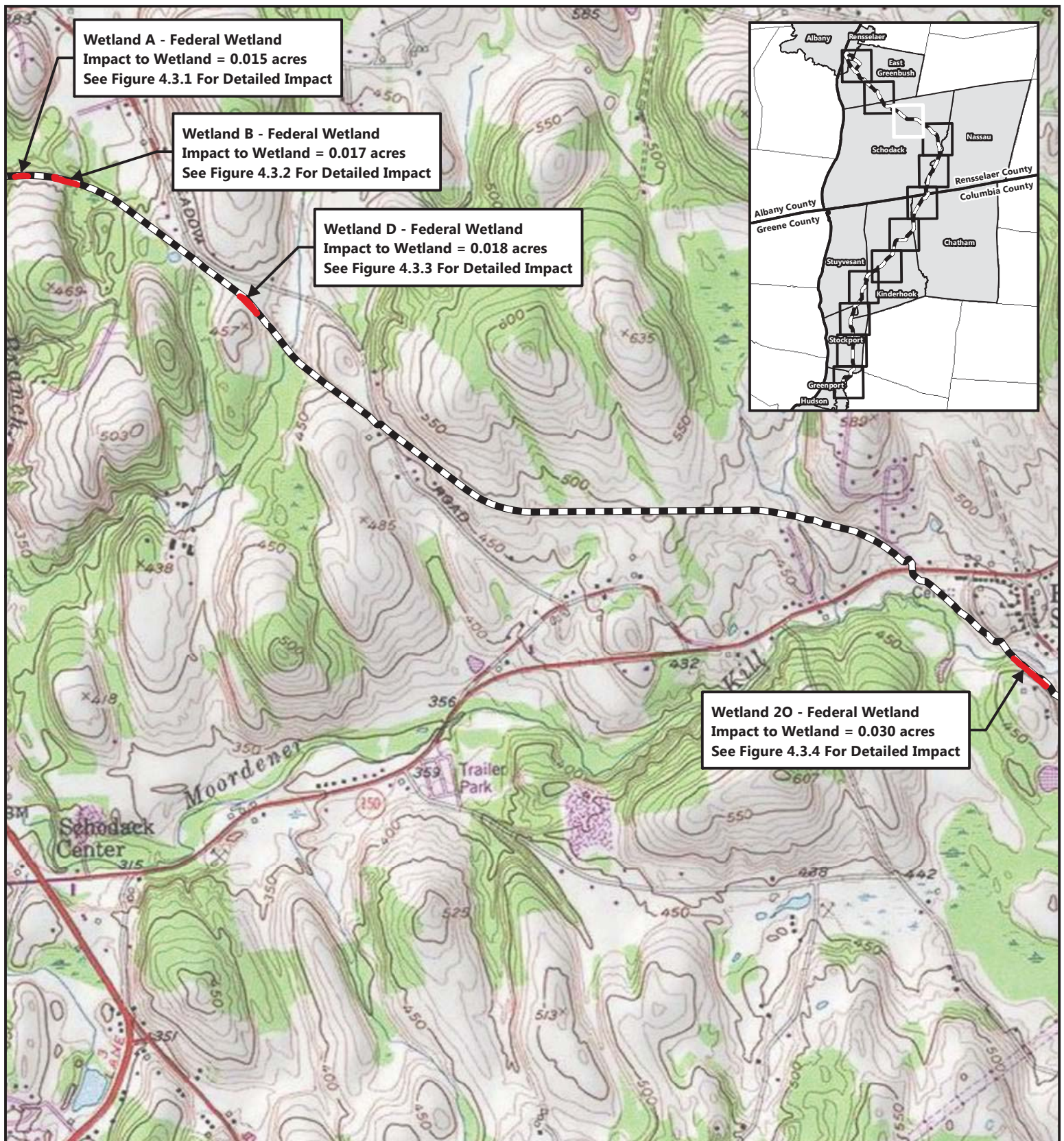
**Legend**

- AHET Alignment
- Impacted Delineated Wetland



Issuance Date: 11/07/2018





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### Legend

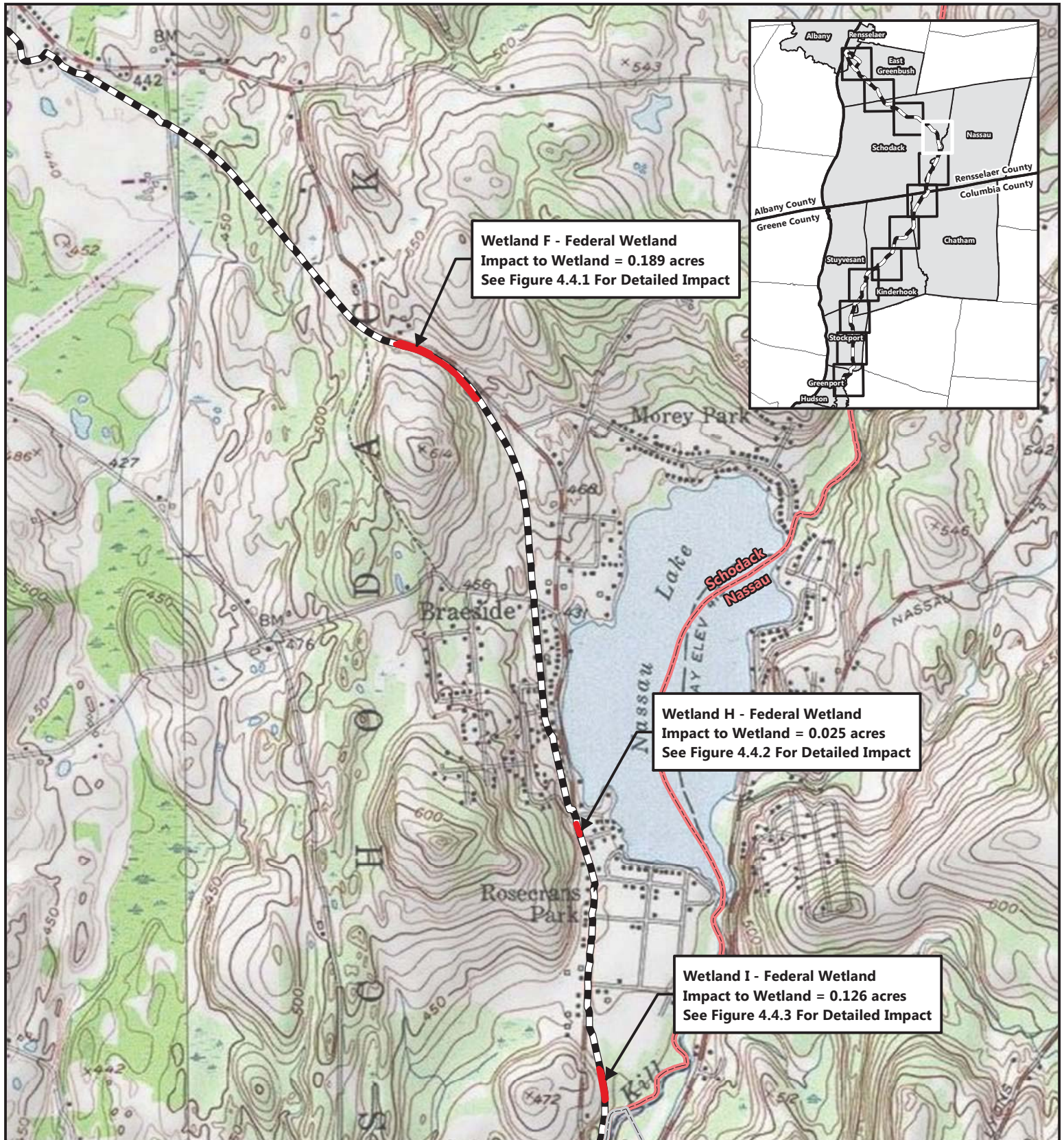
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.4 - Wetland Impacts**  
**Town of Schodack - Rensselaer County**



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Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

**Legend**

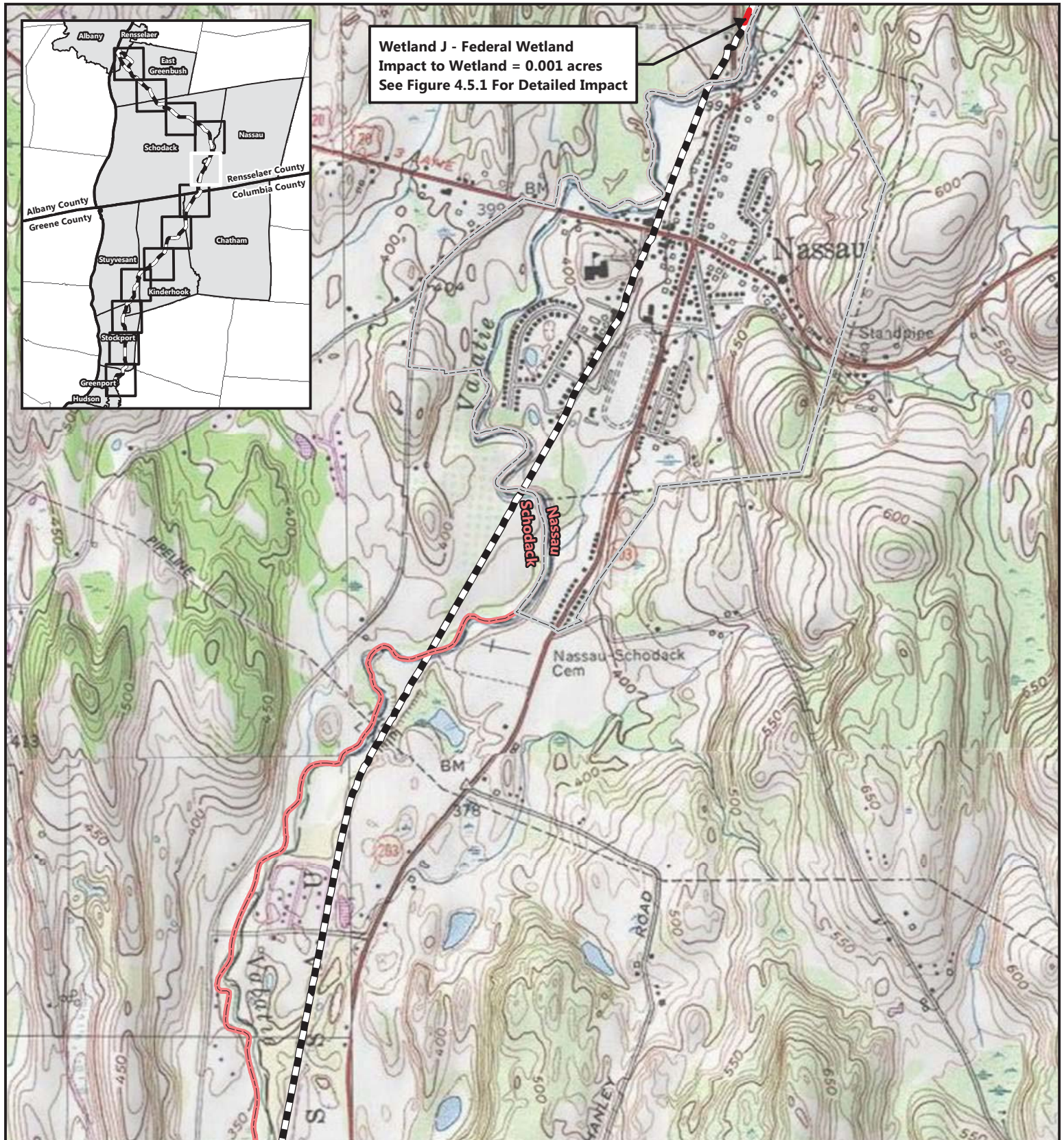
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.5 - Wetland Impacts**  
**Town & Village of Nassau - Rensselaer County**



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Other Third Parties.

**Legend**

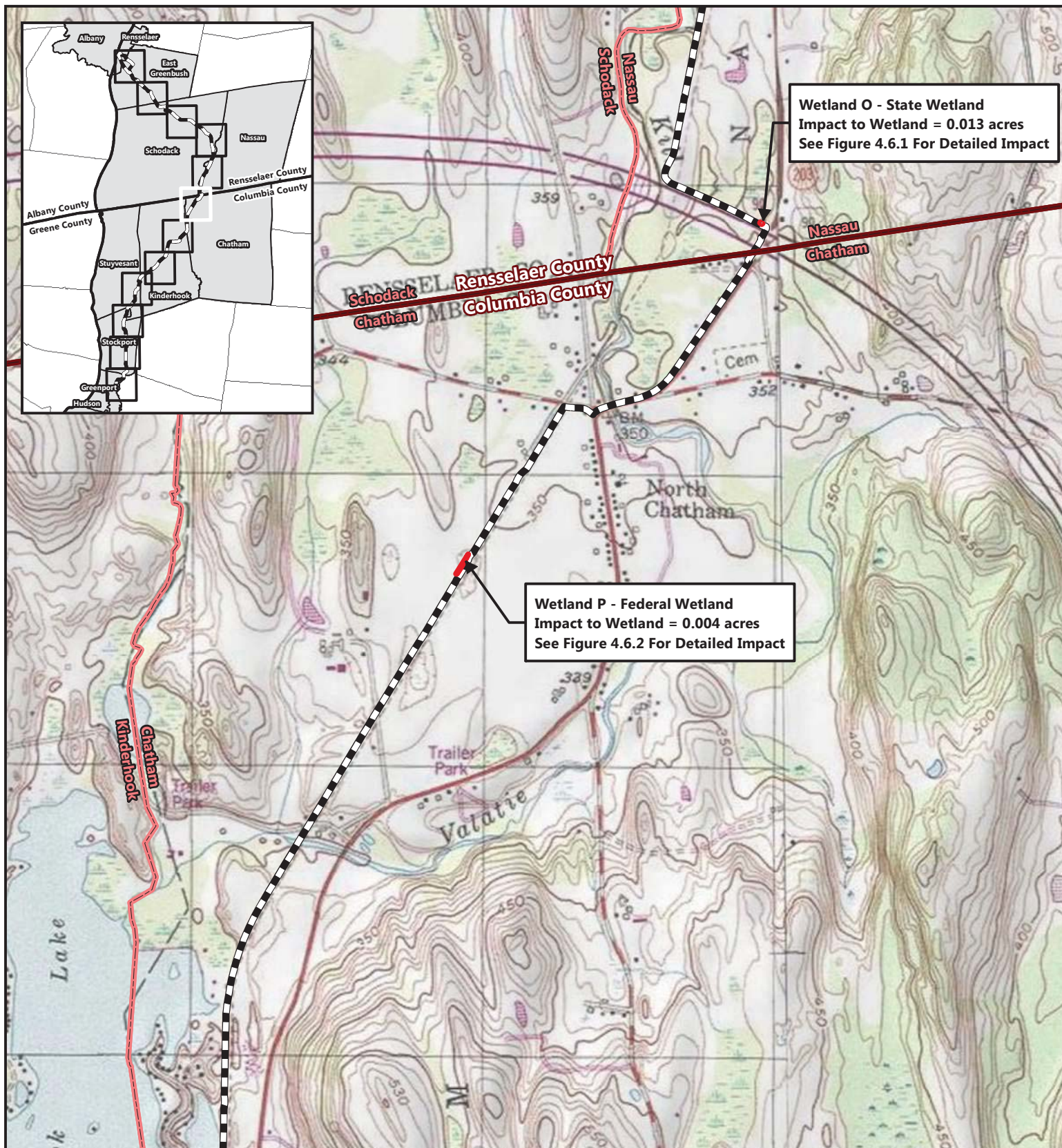
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.6 - Wetland Impacts**  
**Town of Nassau - Rensselaer County & Town of Chatham - Columbia County**



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Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

### Legend

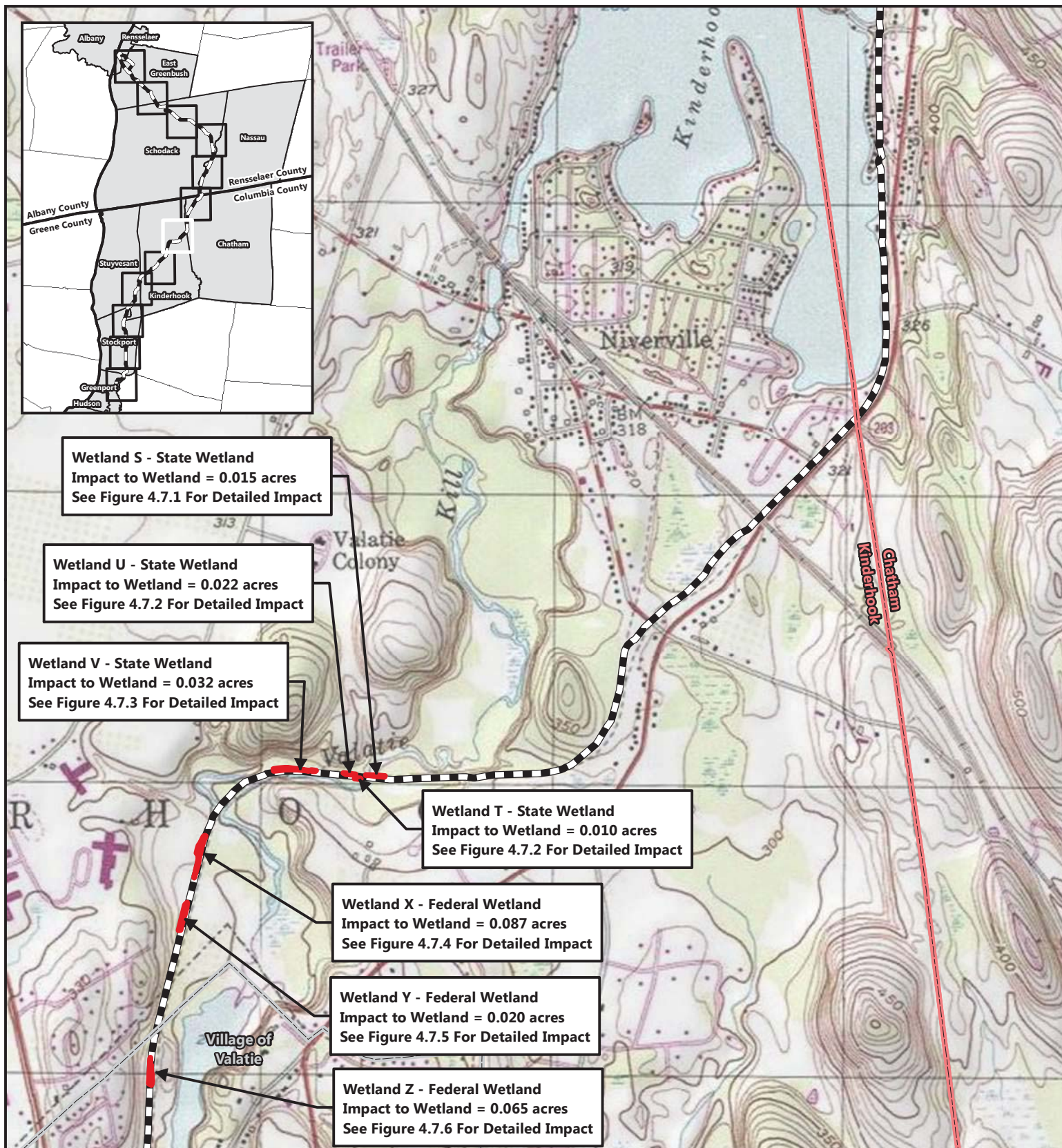
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.7 - Wetland Impacts**  
**Towns of Chatham/Kinderhook & Village of Valatie - Columbia County**



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Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

### Legend

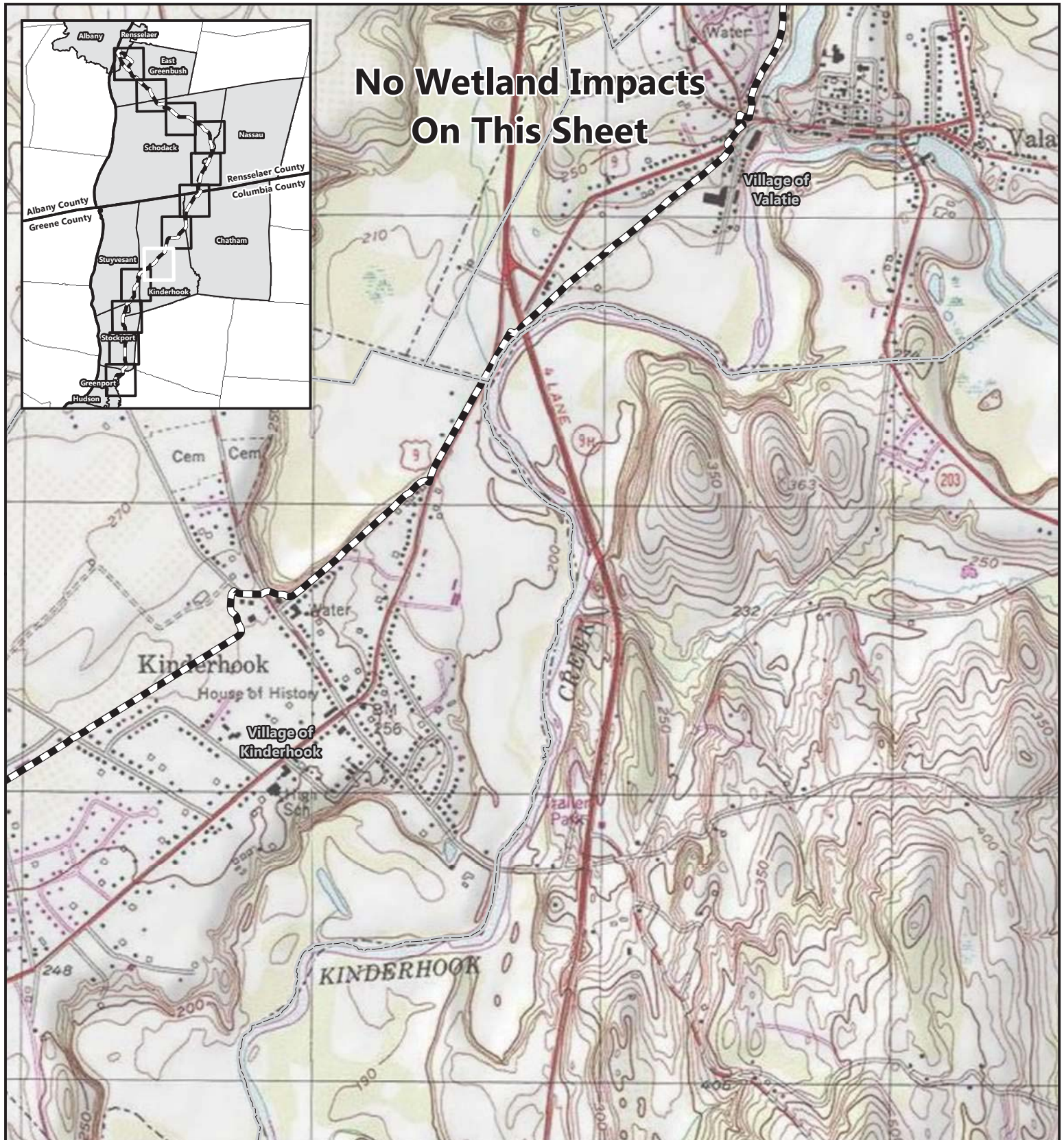
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.8 - Wetland Impacts  
Villages of Valatie & Kinderhook - Columbia County**



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Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

**Legend**

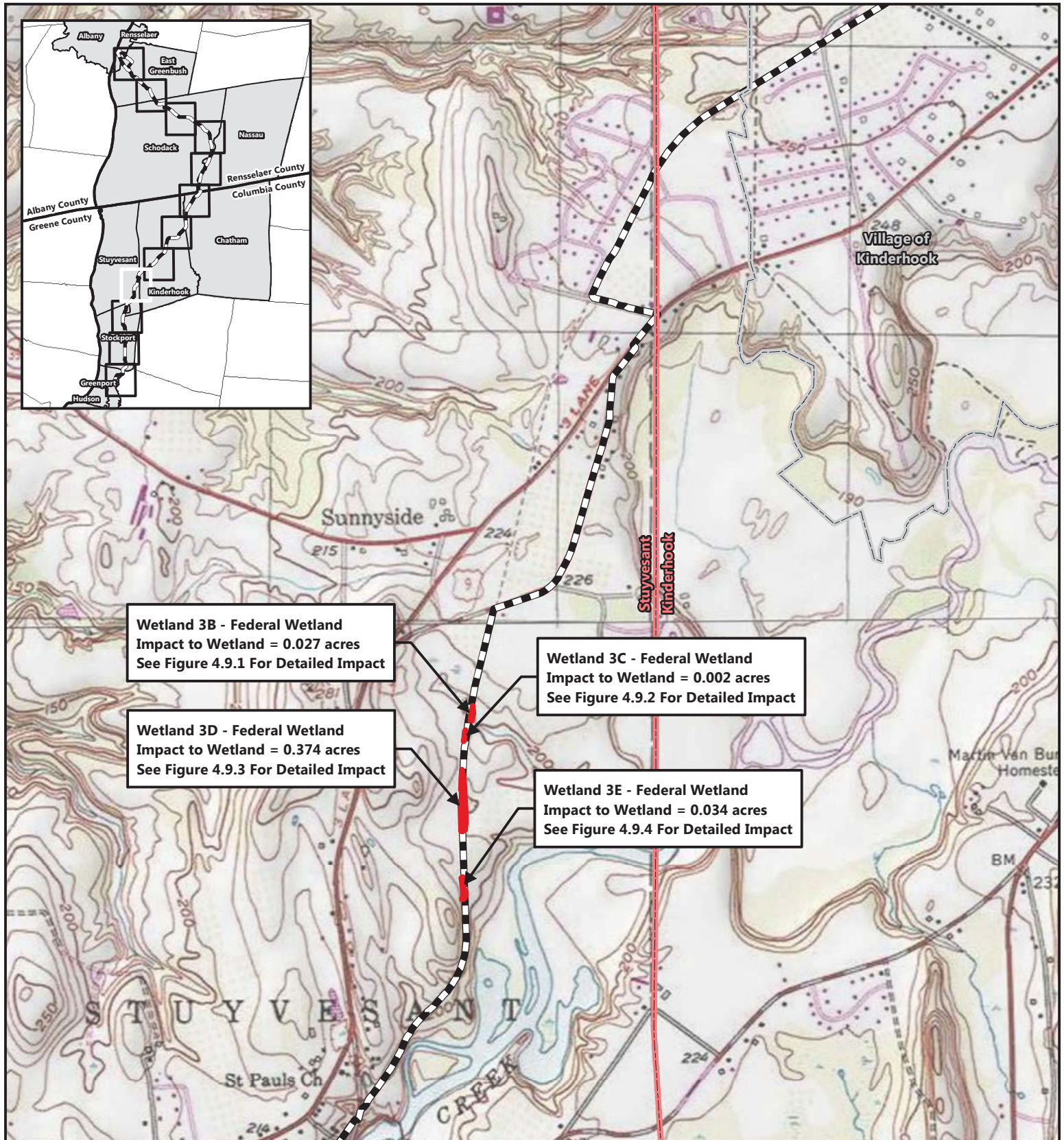
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.9 - Wetland Impacts**  
**Town of Stuyvesant - Columbia County**



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Other Third Parties.

**Legend**

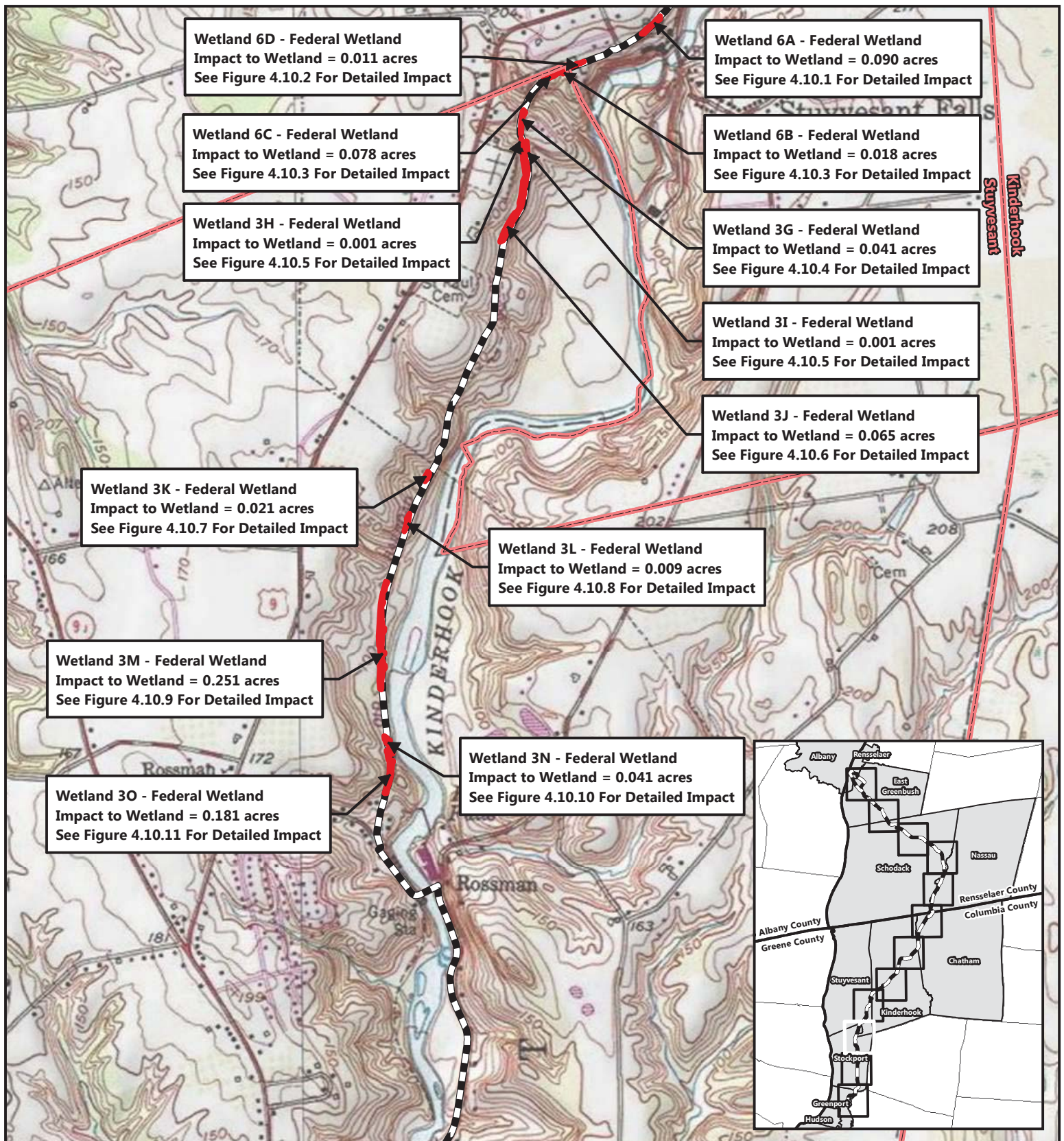
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





**Figure 4.10 - Wetland Impacts**  
**Towns of Stuyvesant & Stockport - Columbia County**



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Other Third Parties.

### Legend

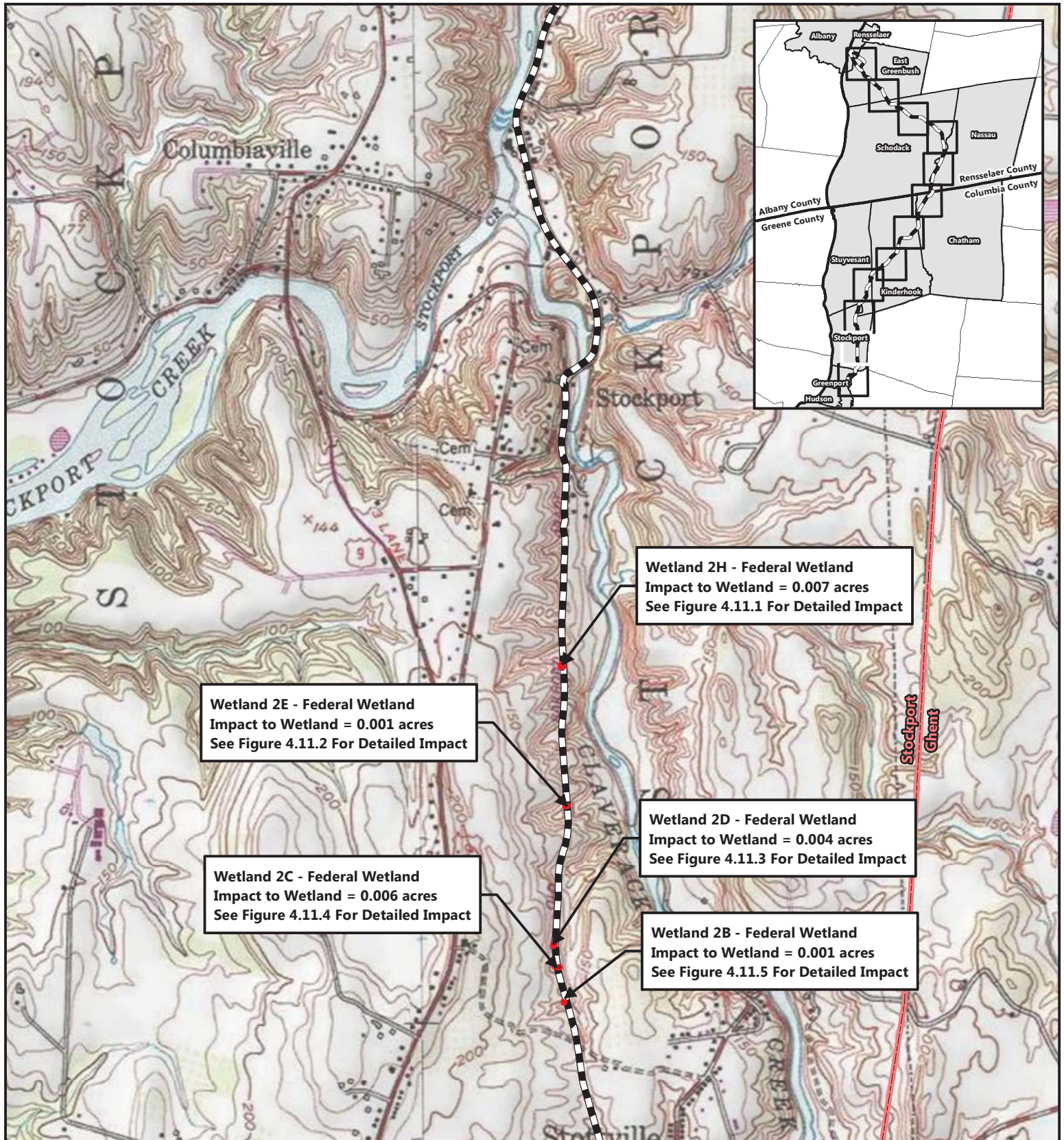
- AHET Alignment
- Impacted Delineated Wetland



0 500 1,000 2,000 Feet

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**Figure 4.11 - Wetland Impacts  
Town of Stockport - Columbia County**



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Other Third Parties.

**Legend**

- AHET Alignment
- Impacted Delineated Wetland




0 500 1,000 2,000 Feet

Issuance Date: 11/07/2018





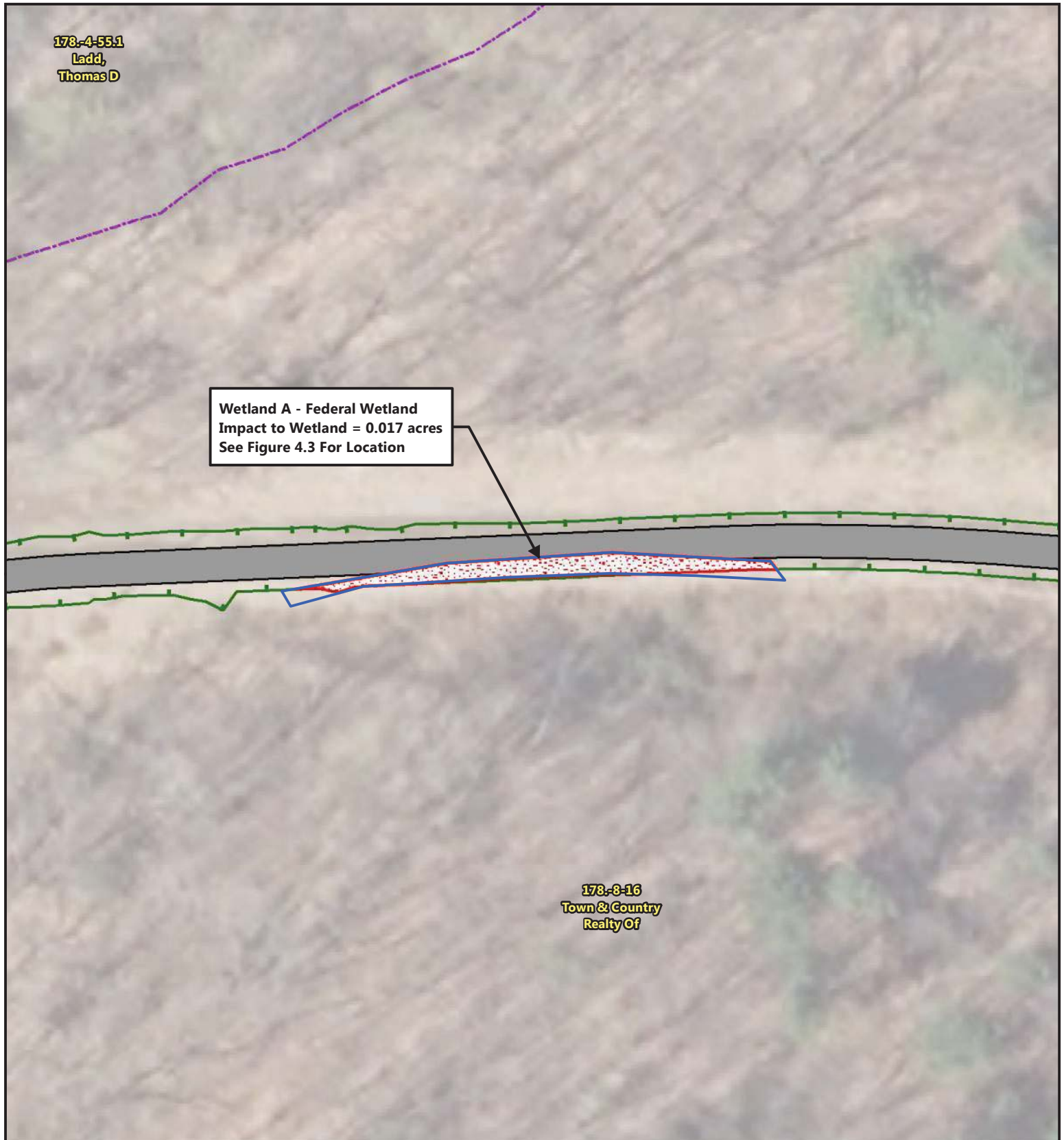
### Legend

-  AHET Alignment  
 Impacted Delineated Wetland



**Issuance Date: 11/07/2018**





**Figure 4.3.1 - Wetland A**  
**Town of Schodack - Rensselaer County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped NWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 15 30 60 Feet





**Figure 4.3.2 - Wetland B**  
**Town of Schodack - Rensselaer County AHET Alignment**

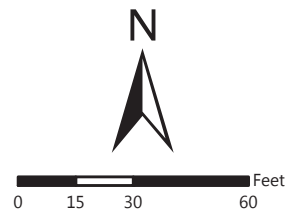


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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Mapped NWI Wetland |
| Cut Line              | Mapped Stream      |
| Fill Line             |                    |
| Culvert & Stone Apron |                    |

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**Figure 4.3.3 - Wetland D**  
**Town of Schodack - Rensselaer County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped NWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 15 30 60 Feet





**Figure 4.3.4 - Wetland 20**  
**Town of Schodack - Rensselaer County AHET Alignment**



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**Legend**

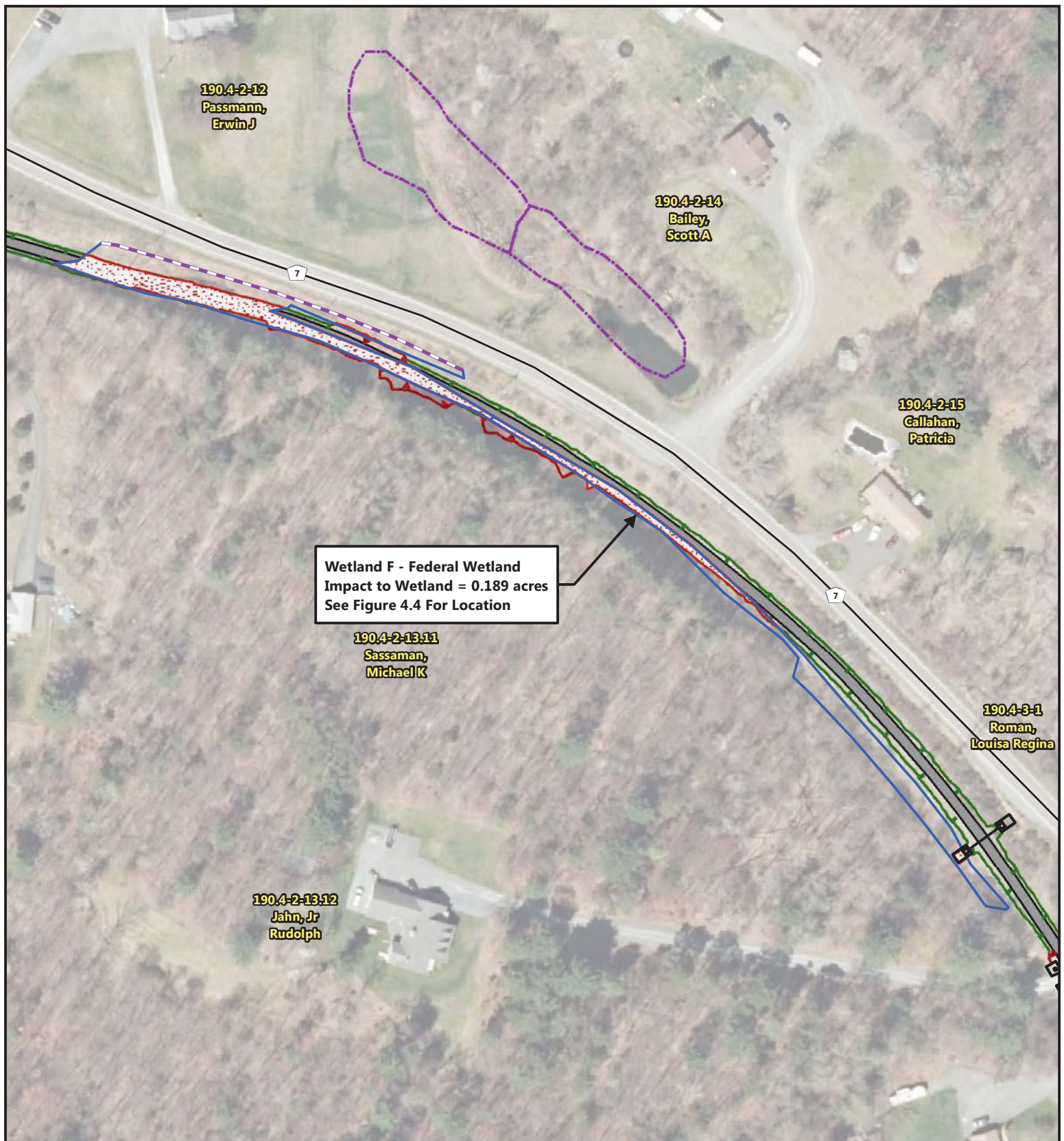
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped NWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 20 40 80 Feet





**Figure 4.4.1 - Wetland F**  
**Town of Schodack - Rensselaer County AHET Alignment**



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 Other Third Parties.

**Legend**

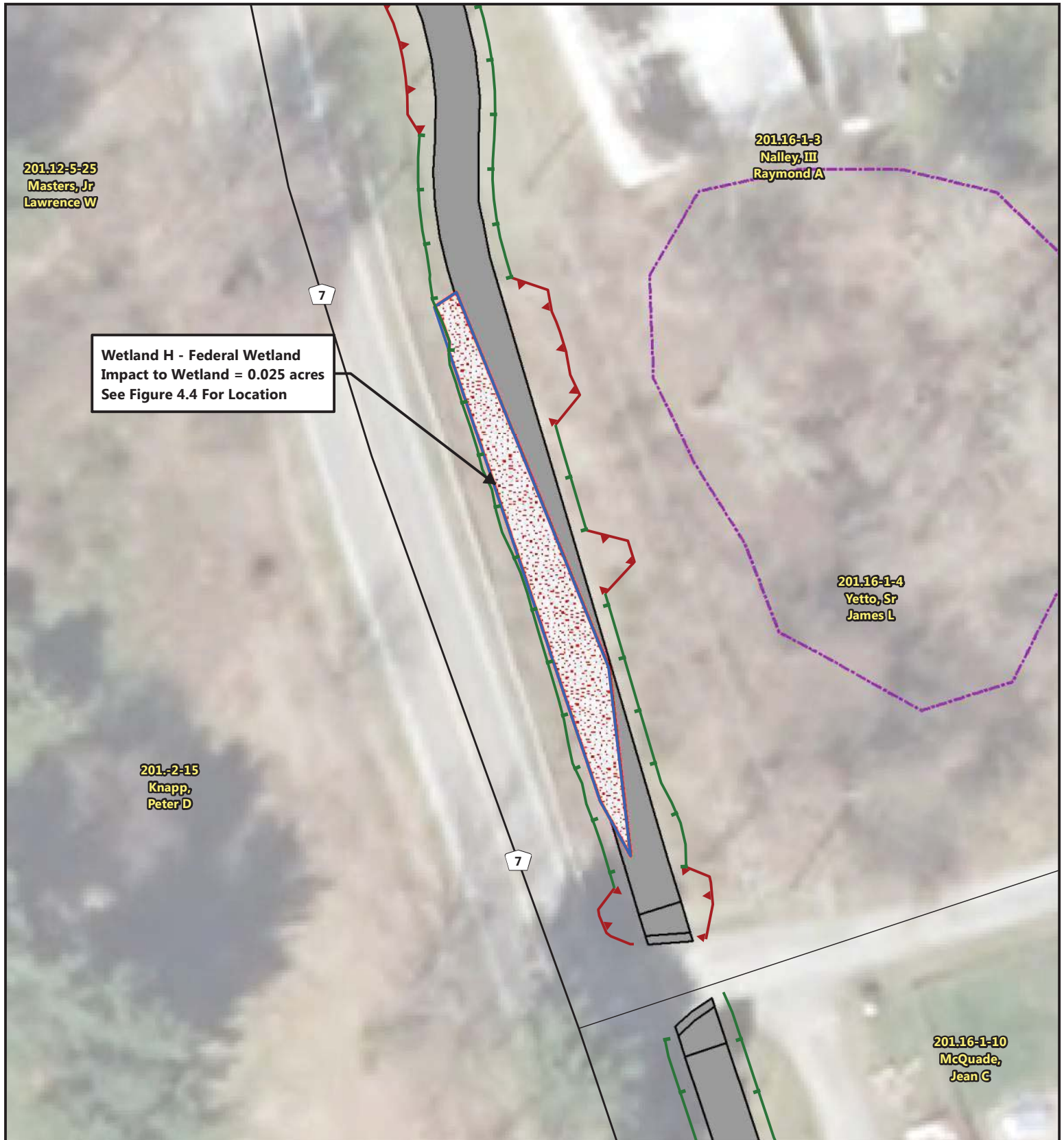
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 50 100 200 Feet





**Figure 4.4.2 - Wetland H**  
**Town of Schodack - Rensselaer County AHET Alignment**

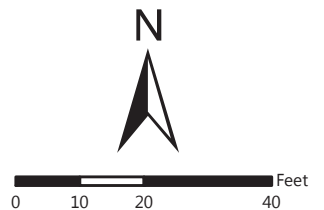


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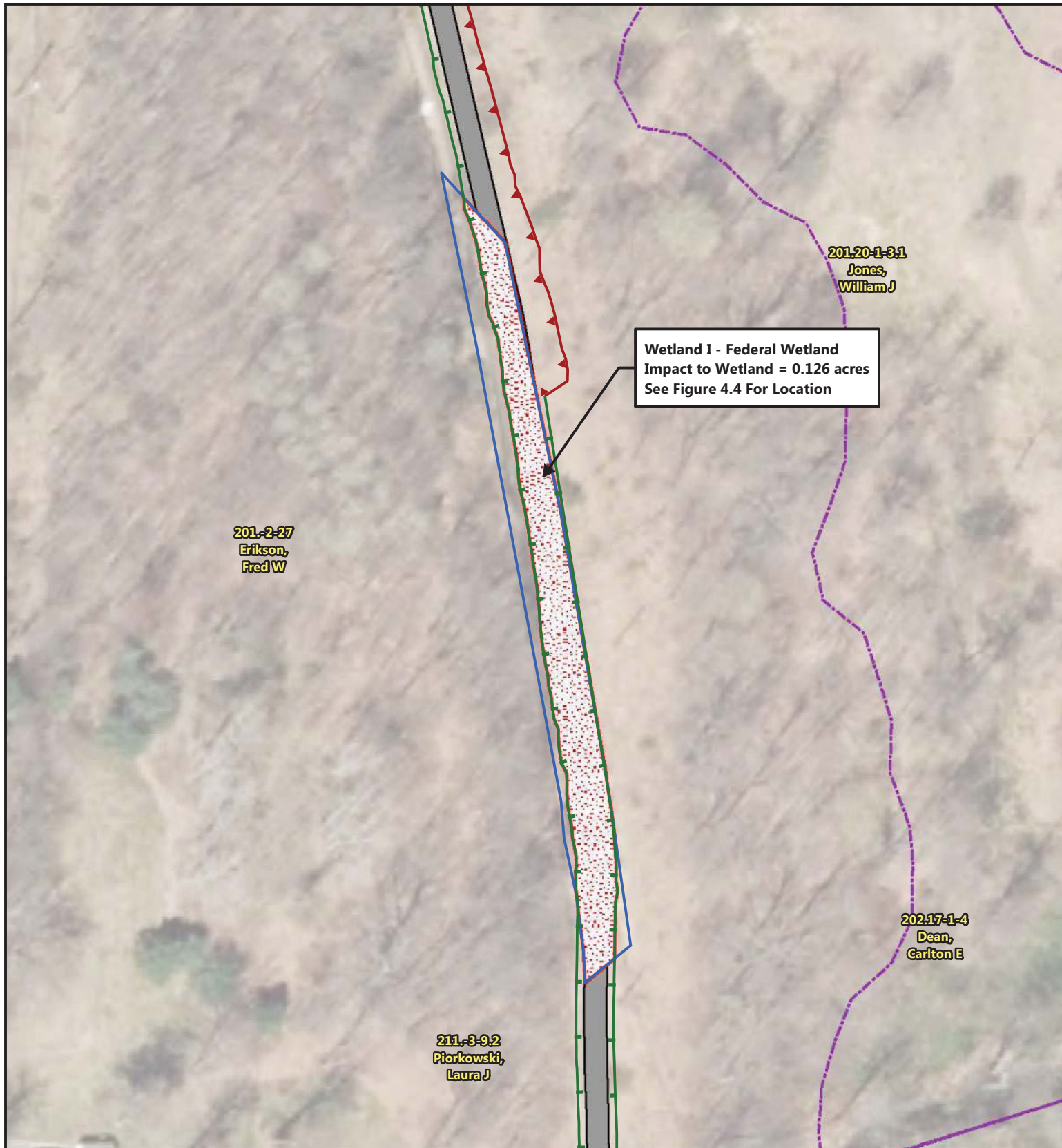
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped NWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

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**Figure 4.4.3 - Wetland I**  
**Town of Schodack - Rensselaer County AHET Alignment**



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**Legend**

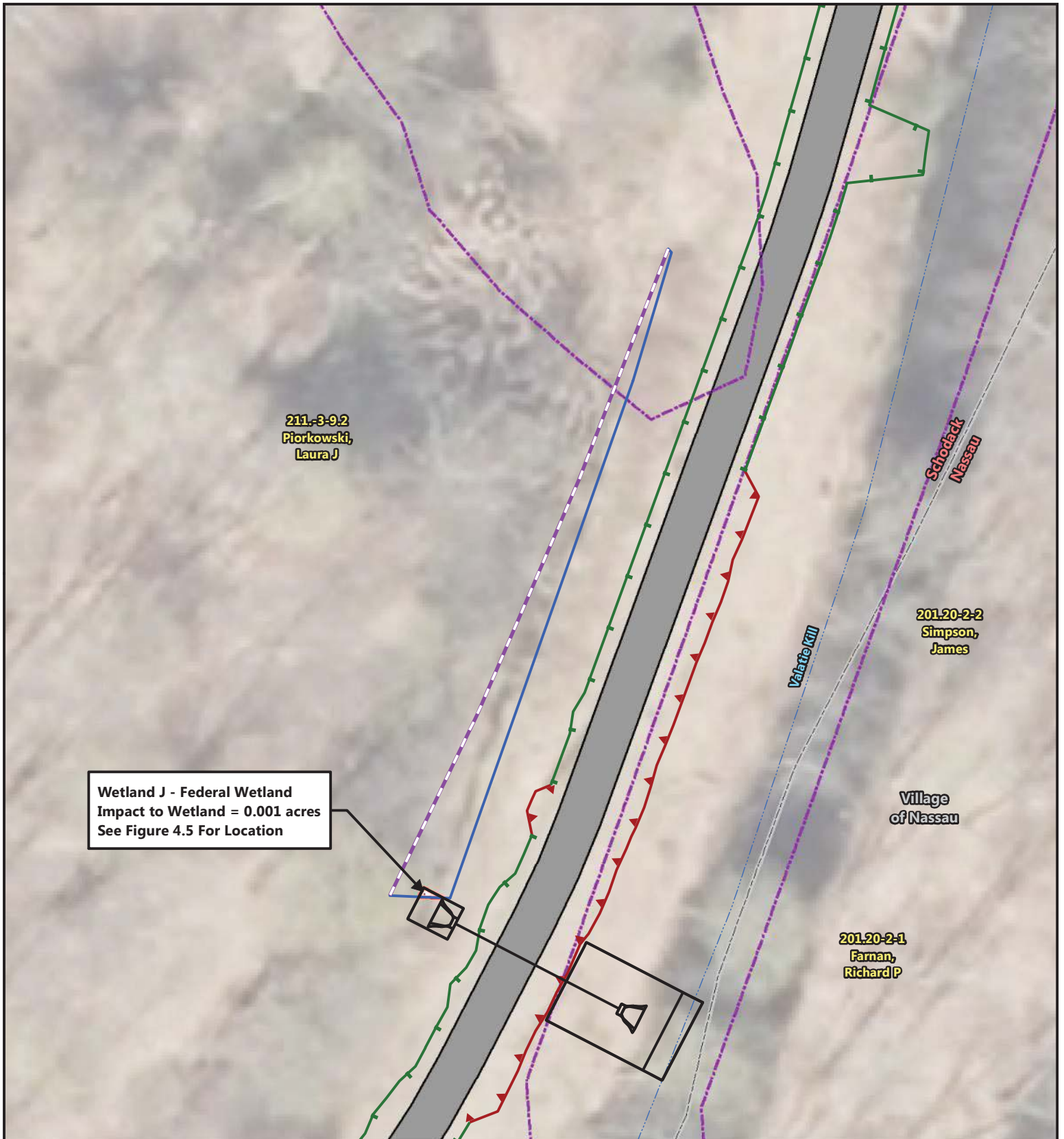
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped NWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 25 50 100 Feet





**Figure 4.5.1 - Wetland J**  
**Town of Nassau - Rensselaer County AHET Alignment**

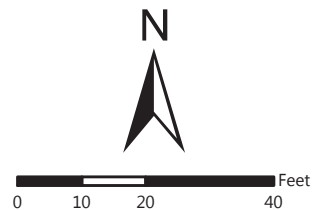


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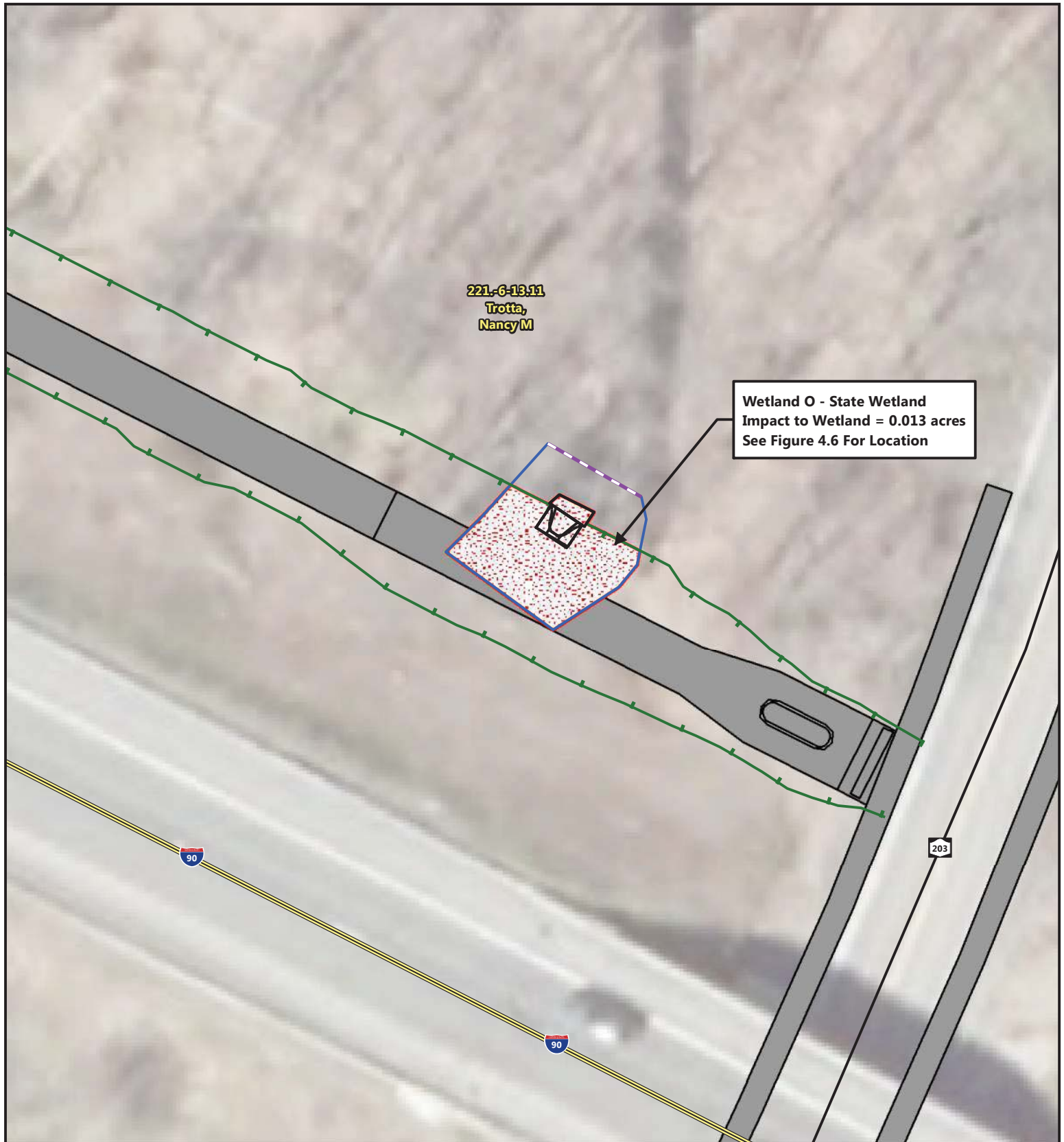
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

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**Figure 4.6.1 - Wetland O**  
**Town of Nassau - Rensselaer County AHET Alignment**

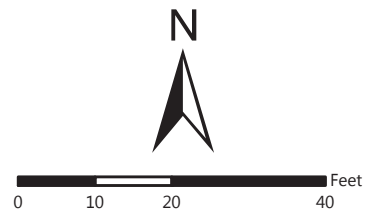


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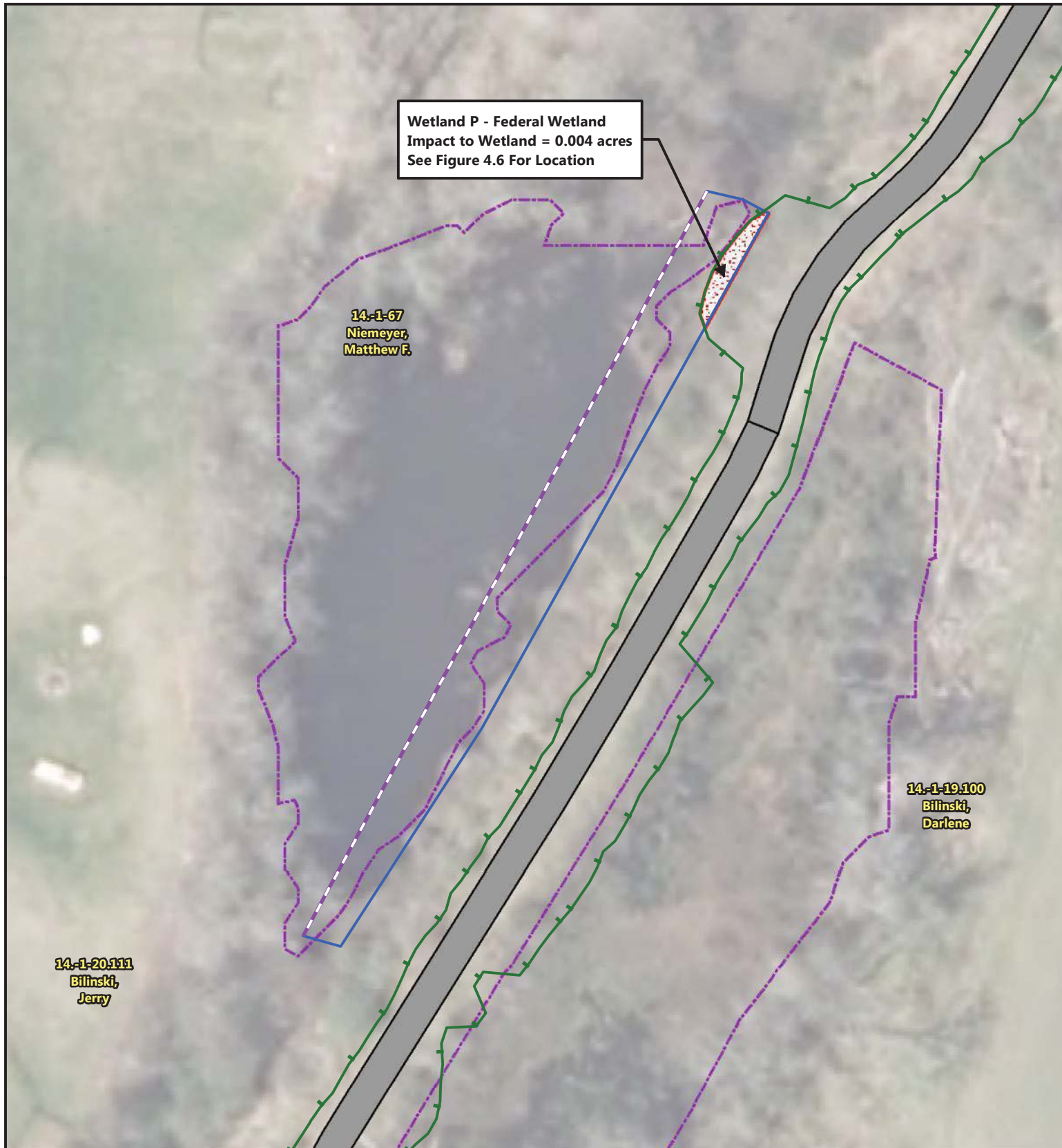
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.6.2 - Wetland P**  
**Town of Chatham - Columbia County AHET Alignment**



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**Legend**

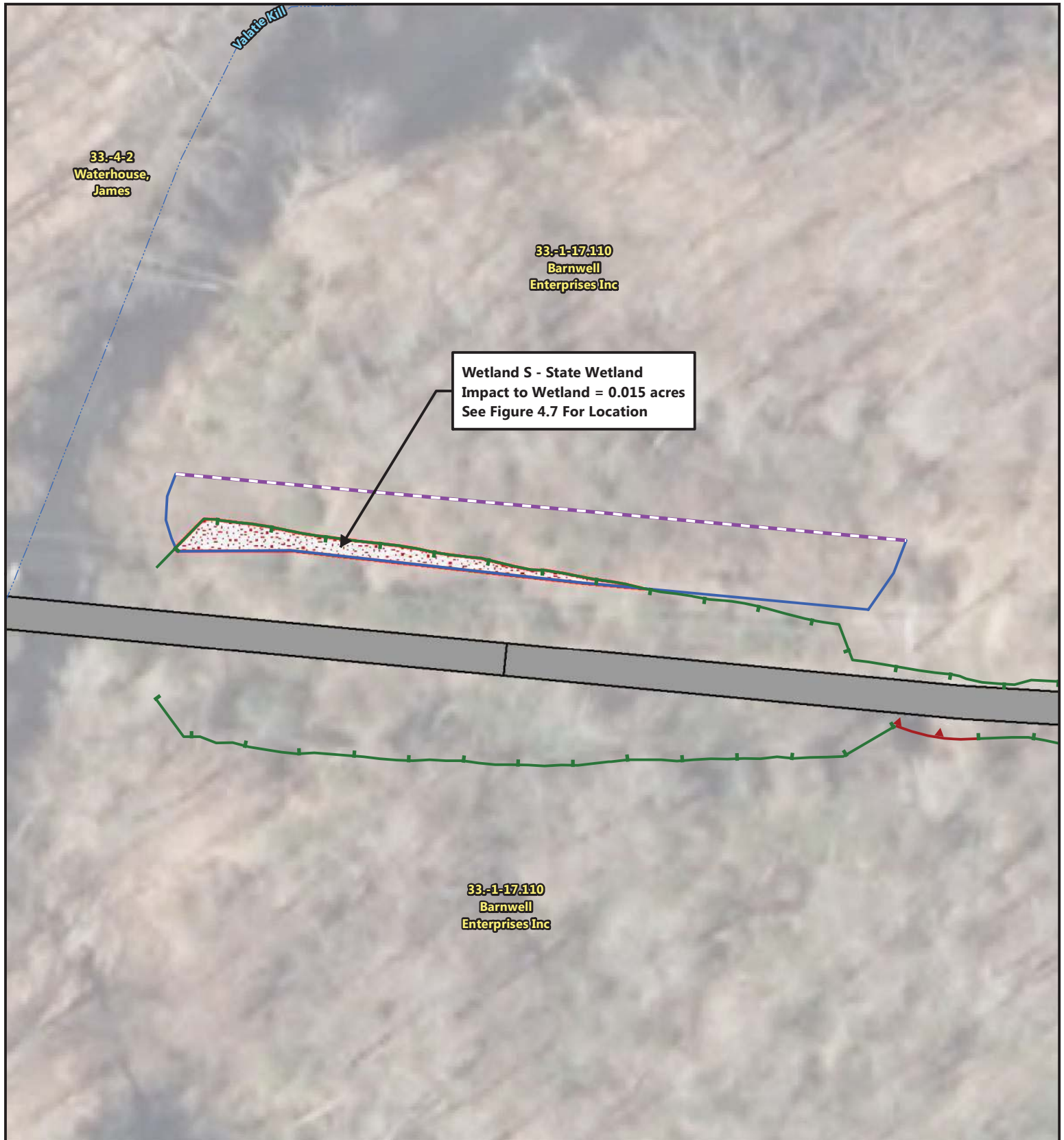
- Delineated Wetland
- Wetland Impact
- Cut Line
- Fill Line
- Culvert & Stone Apron
- Wetland Continues
- Trail Alignment
- Mapped MWI Wetland
- Mapped Stream

Issuance Date: 11/07/2018



0 15 30 60 Feet





**Figure 4.7.1 - Wetland S**  
**Town of Kinderhook - Columbia County AHET Alignment**



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**Legend**

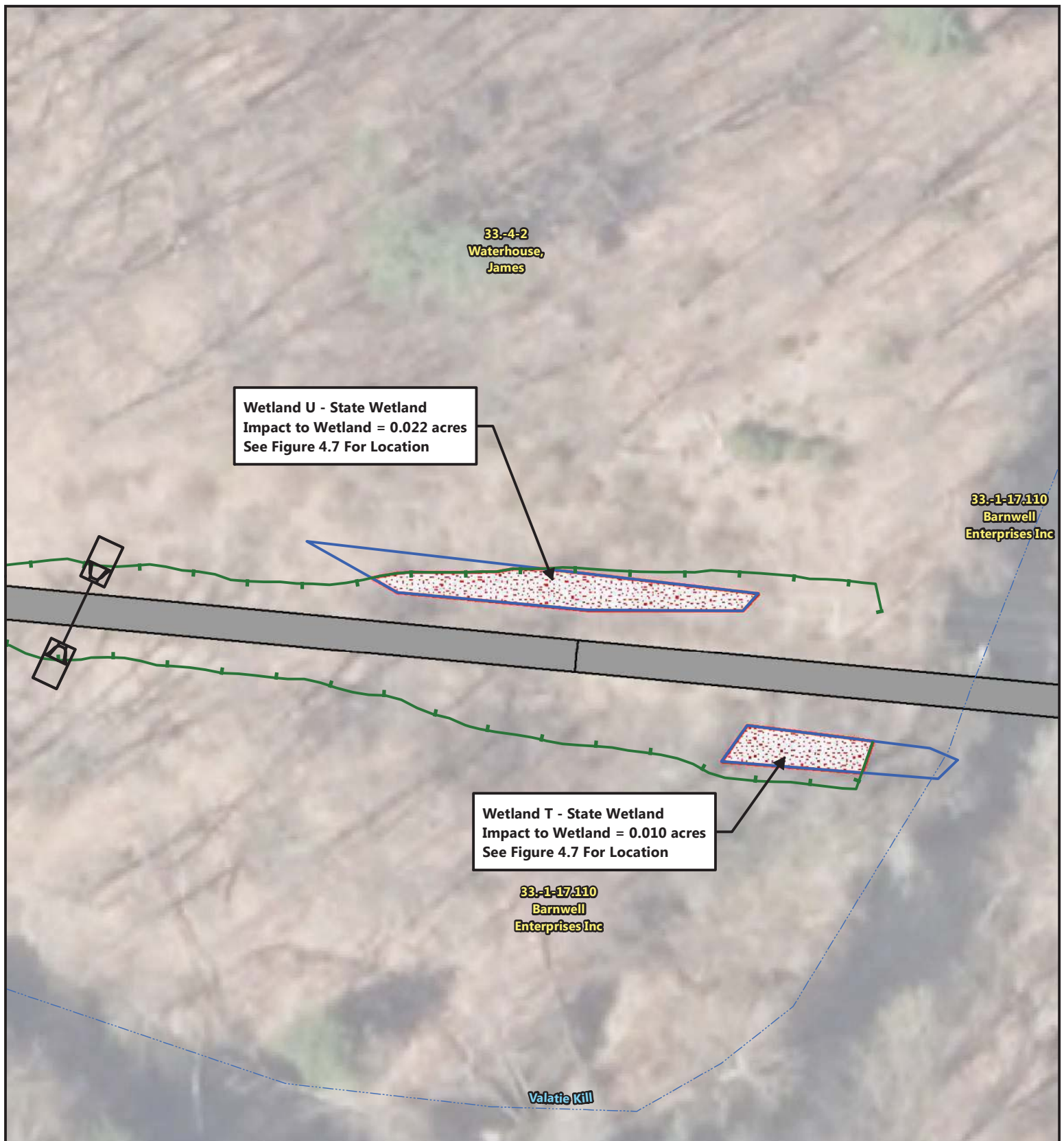
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 15 30 60 Feet





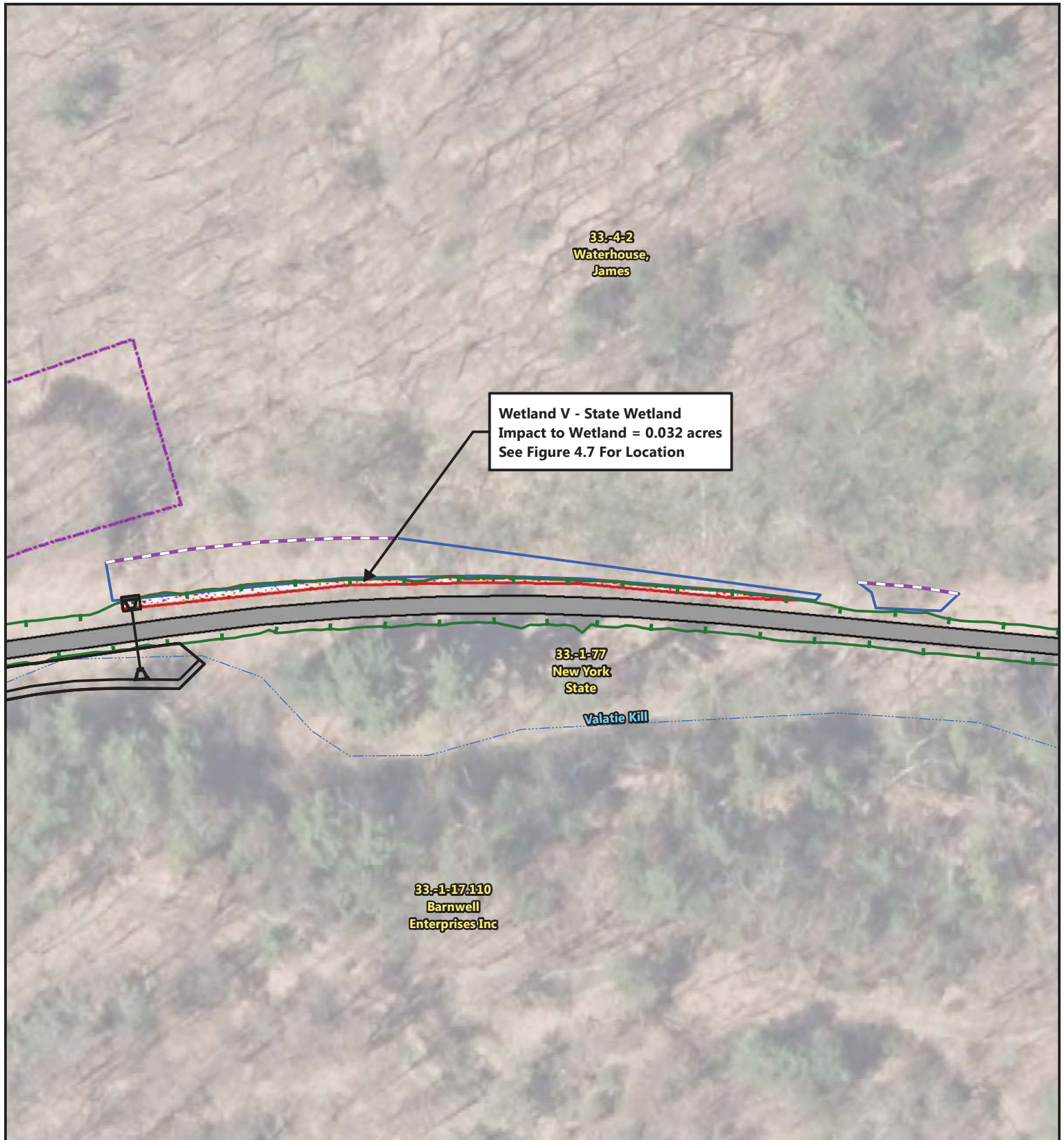
**Figure 4.7.2 - Wetland T & U**  
**Town of Kinderhook - Columbia County AHET Alignment**



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Issuance Date: 11/07/2018





**Figure 4.7.3 - Wetland V**  
**Town of Kinderhook - Columbia County AHET Alignment**

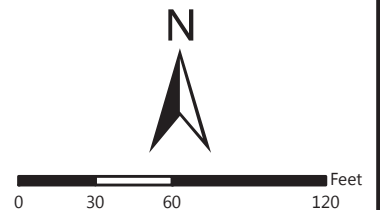


*Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.7.4 - Wetland X  
Town of Kinderhook - Columbia County AHET Alignment**



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Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

**Issuance Date: 11/07/2018**



0 25 50 100 Feet





**Figure 4.7.5 - Wetland Y**  
**Town of Kinderhook - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

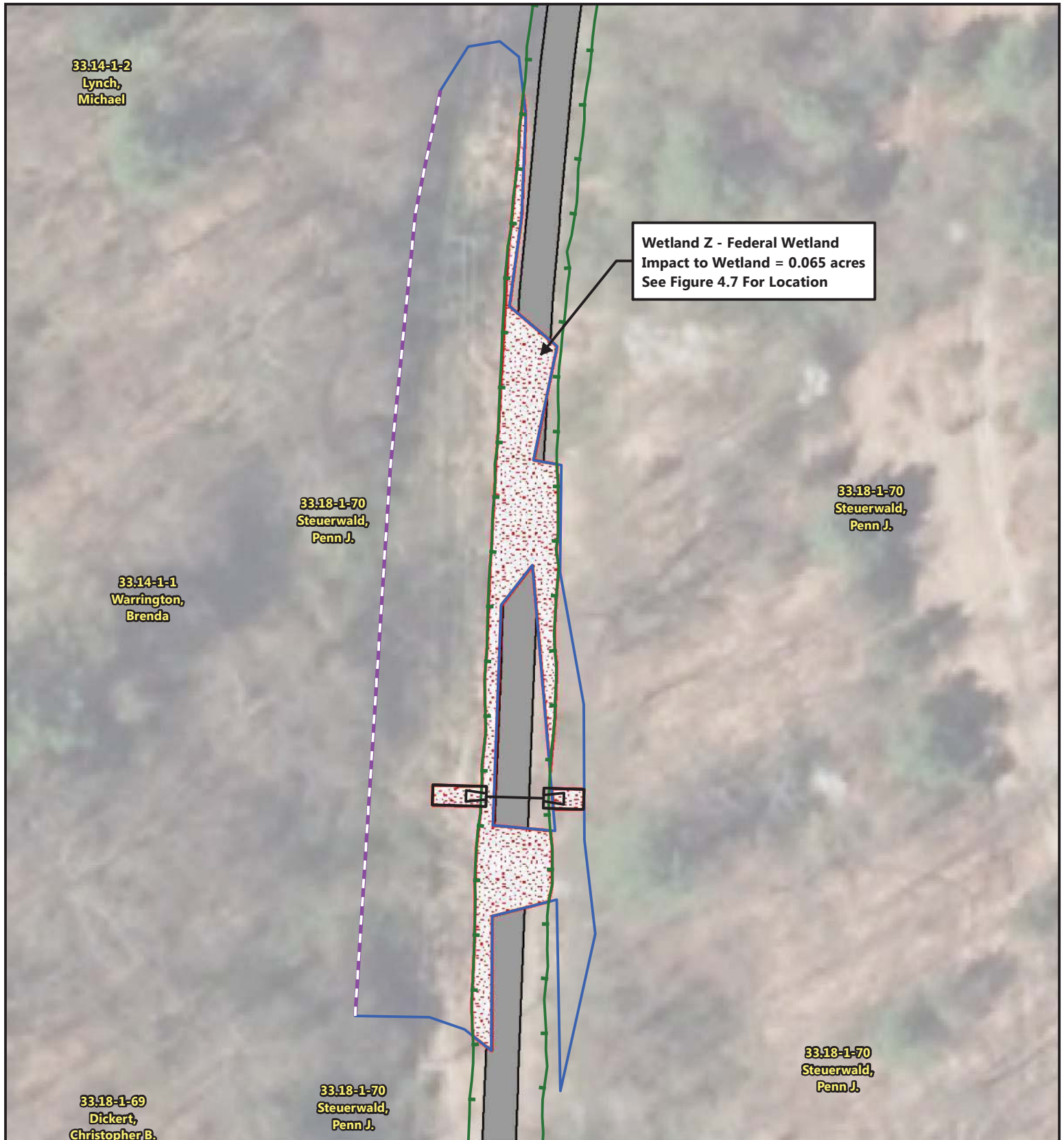
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

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0 20 40 80 Feet





**Figure 4.7.6 - Wetland Z**  
**Village of Valatie - Columbia County AHET Alignment**



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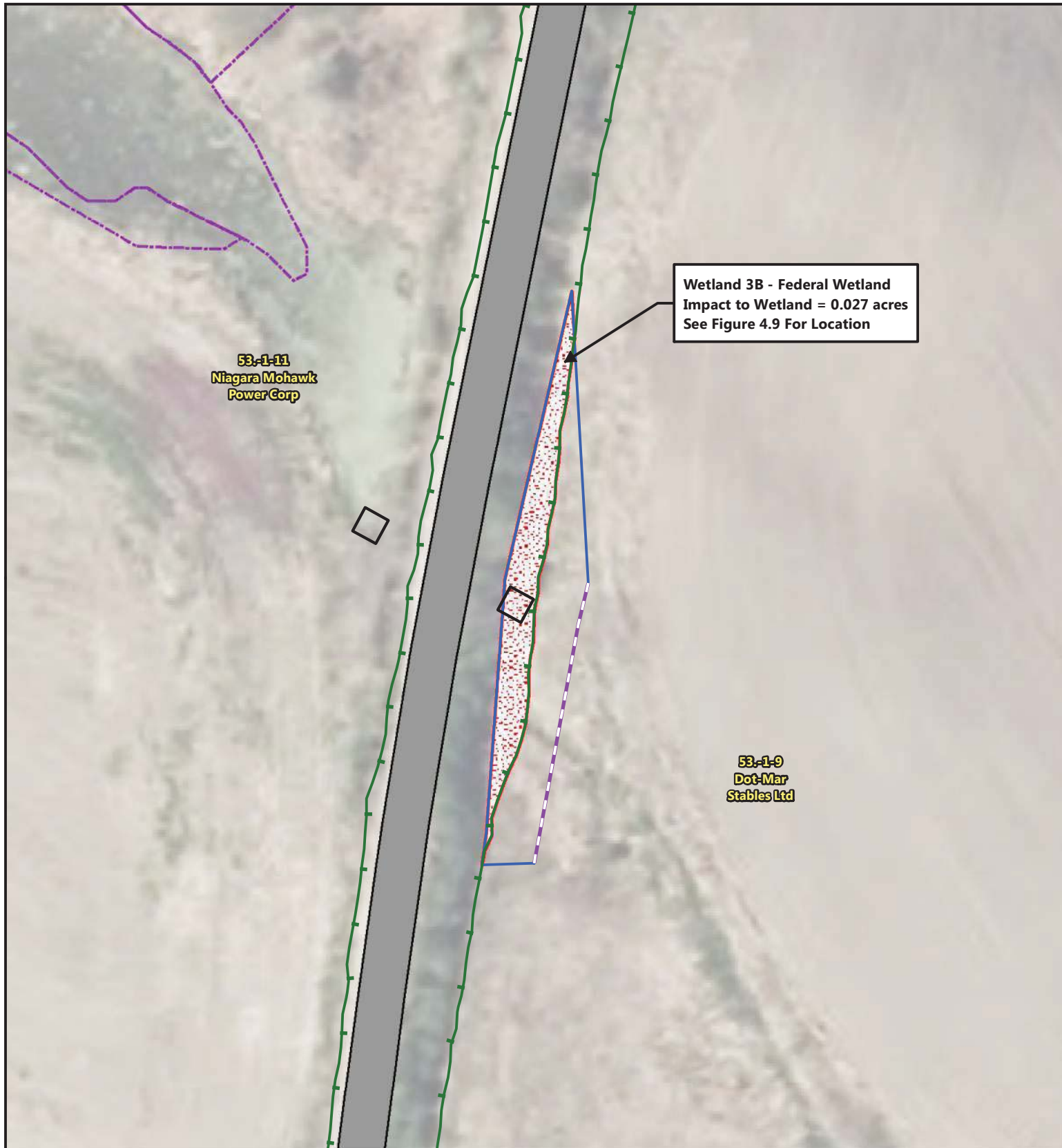
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 15 30 60 Feet



**Figure 4.9.1 - Wetland 3B**  
**Town of Stuyvesant - Columbia County AHET Alignment**



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**Legend**

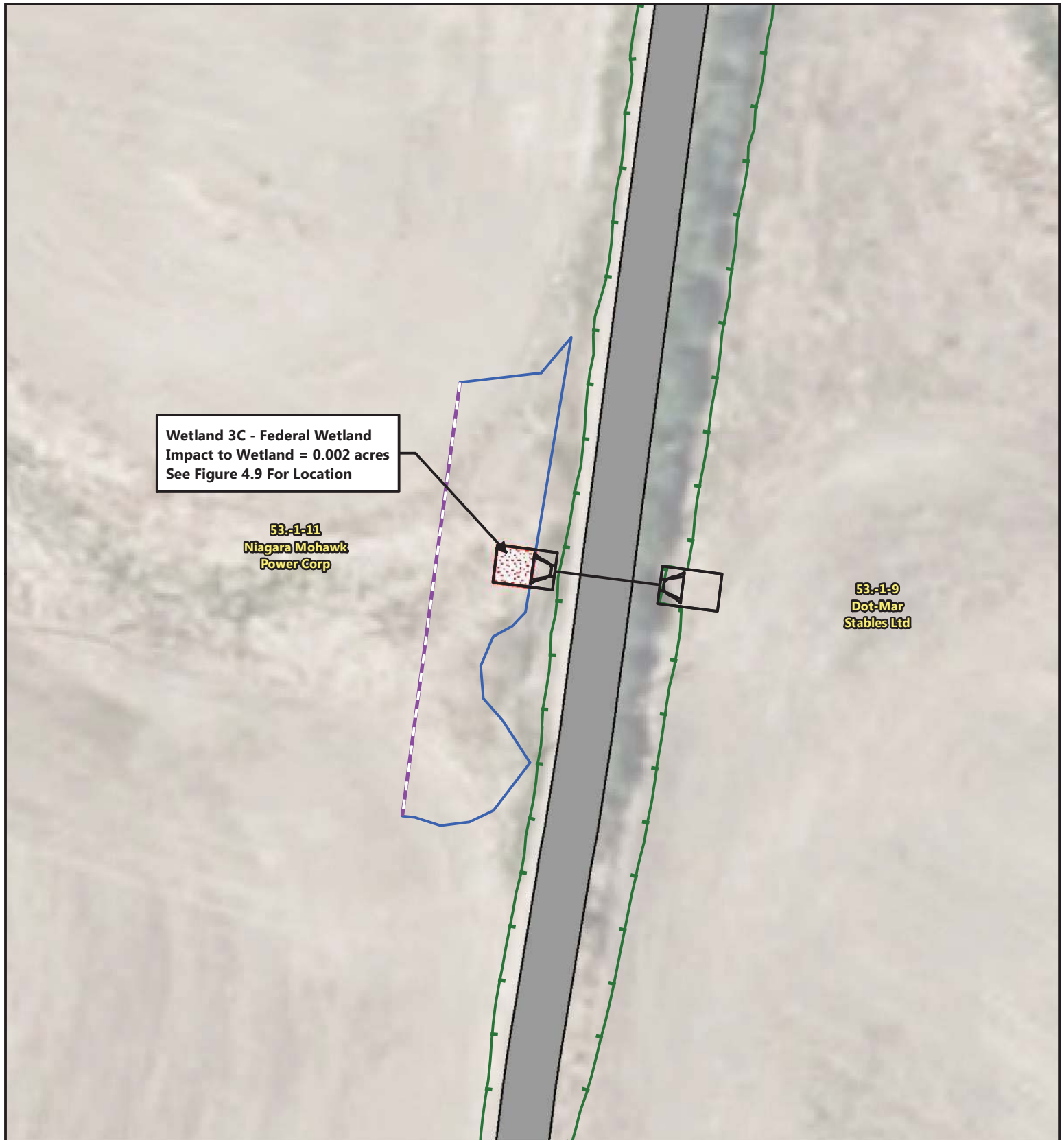
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 15 30 60 Feet





**Figure 4.9.2 - Wetland 3C**  
**Town of Stuyvesant - Columbia County AHET Alignment**

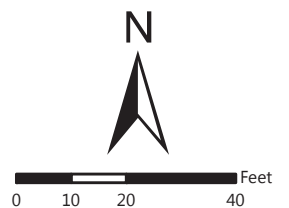


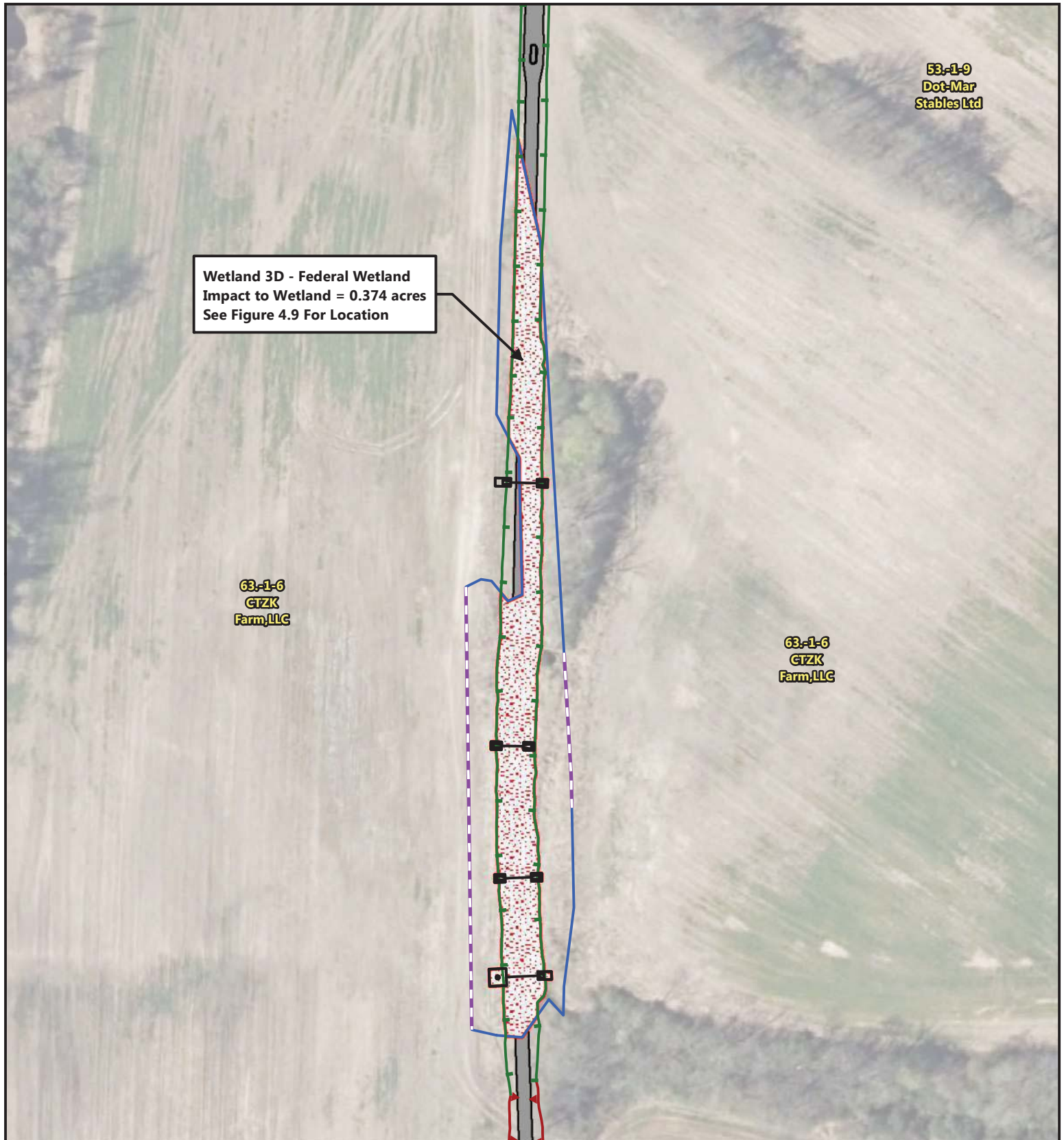
*Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

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**Figure 4.9.3 - Wetland 3D**  
**Town of Stuyvesant - Columbia County AHET Alignment**

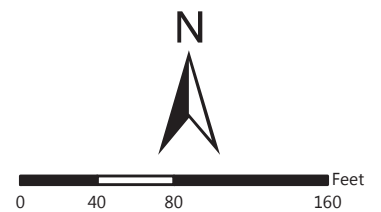


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Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.9.4 - Wetland 3E**  
**Town of Stuyvesant - Columbia County AHET Alignment**



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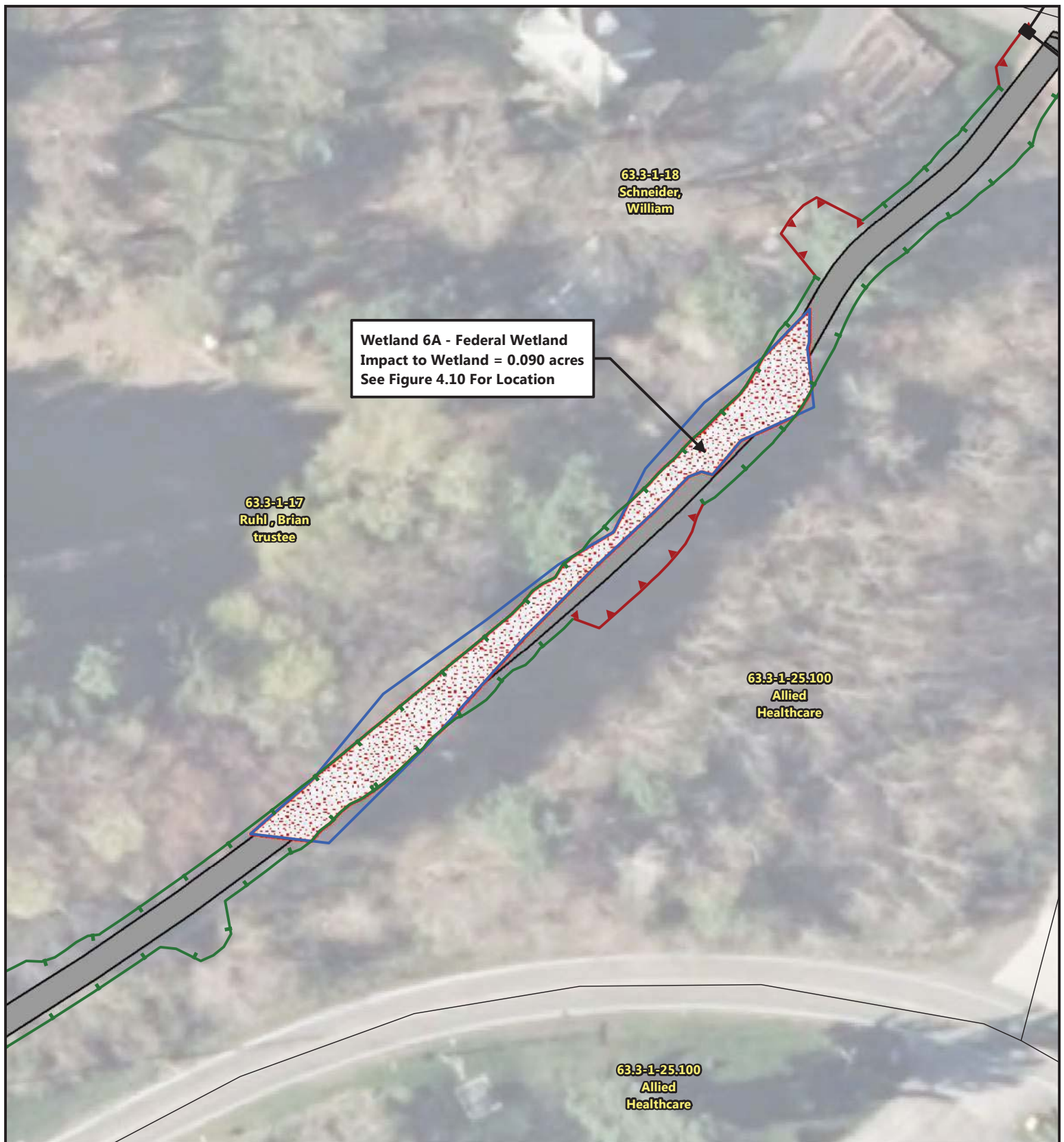
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 20 40 80 Feet



**Figure 4.10.1 - Wetland 6A**  
**Town of Stuyvesant - Columbia County AHET Alignment**

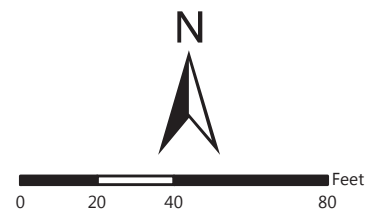


*Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.*

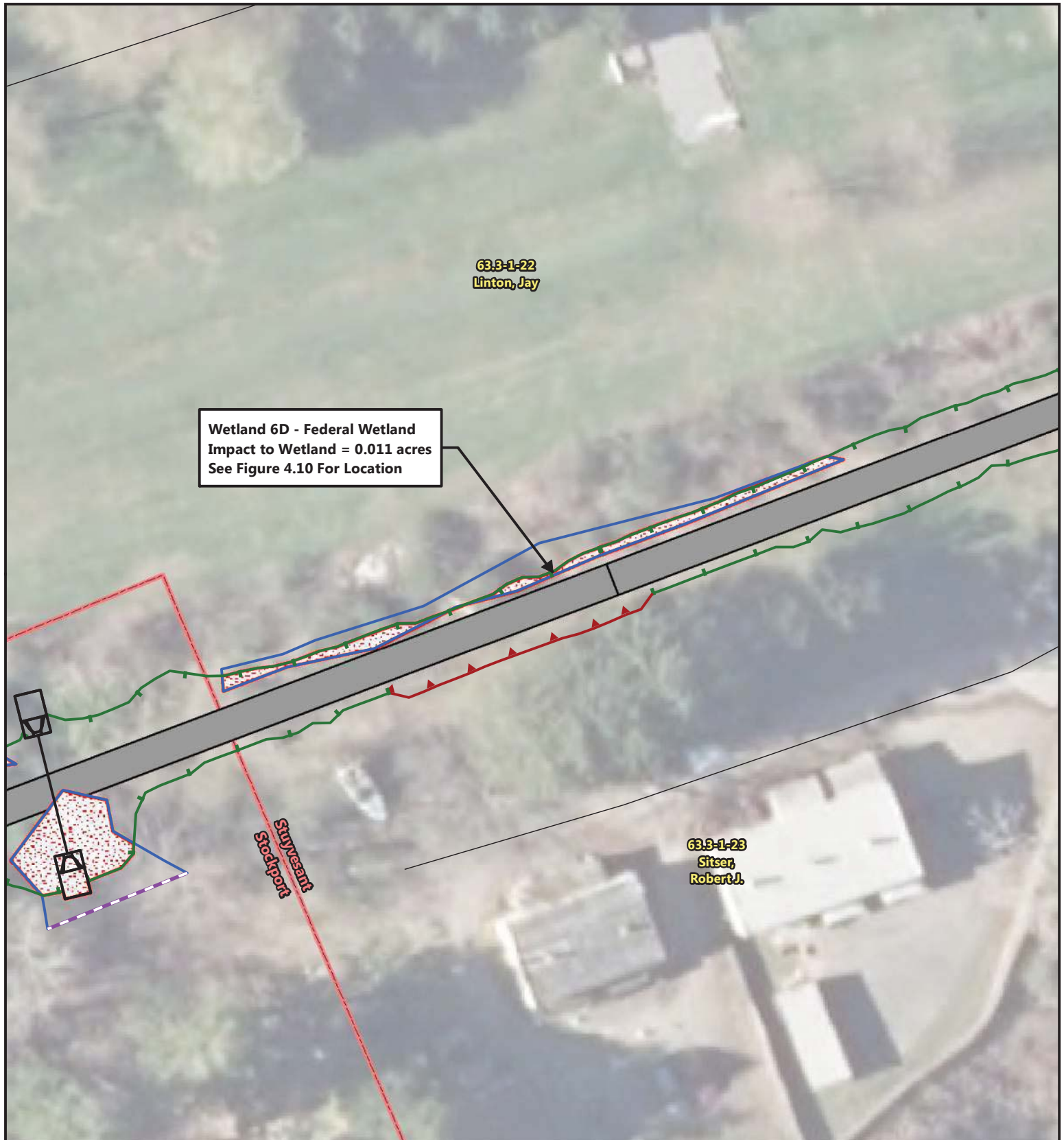
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.10.2 - Wetland 6D**  
**Town of Stuyvesant - Columbia County AHET Alignment**

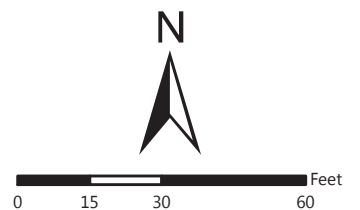


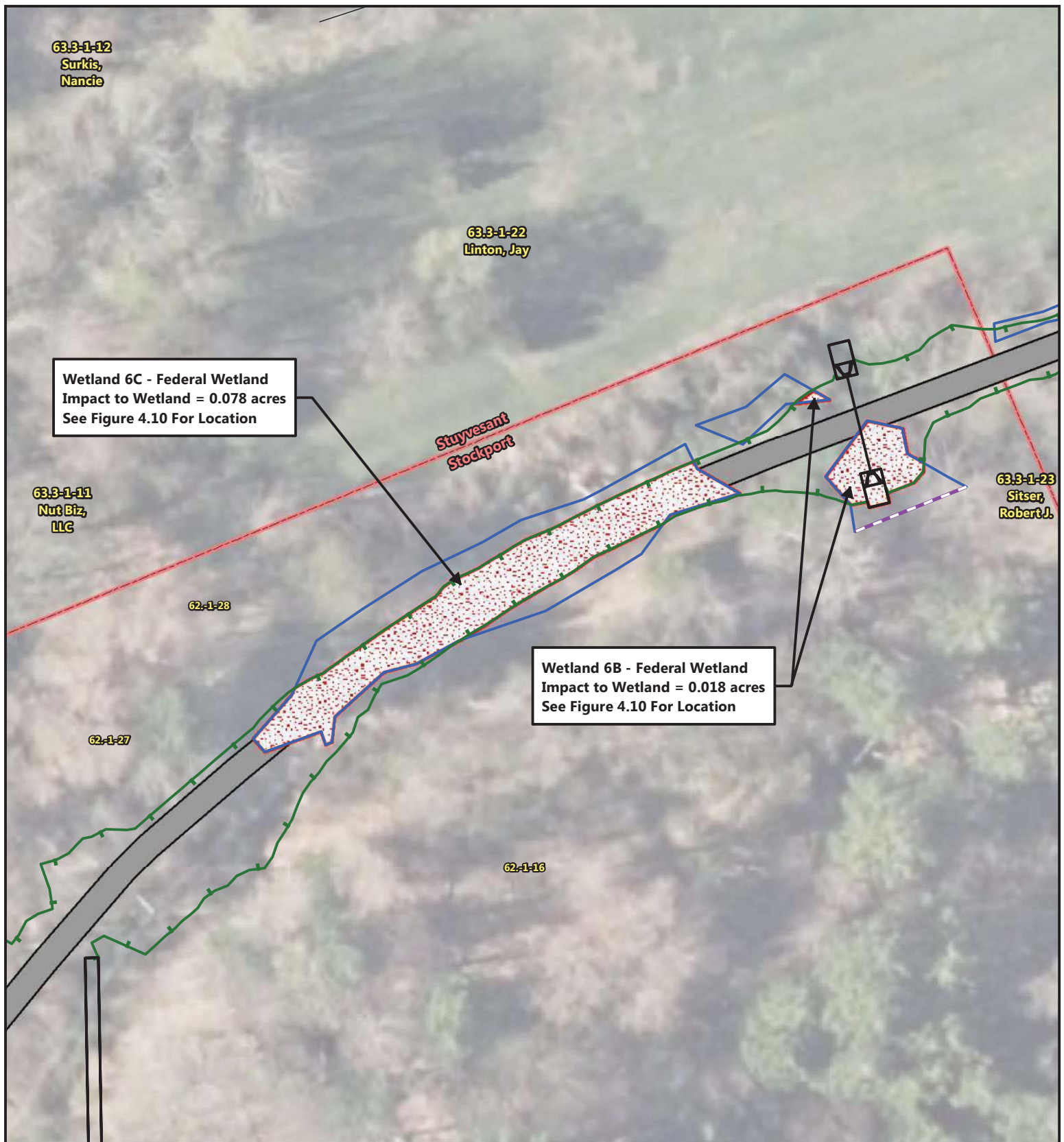
Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018





**Figure 4.10.3 - Wetland 6B & 6C**  
**Town of Stockport - Columbia County AHET Alignment**

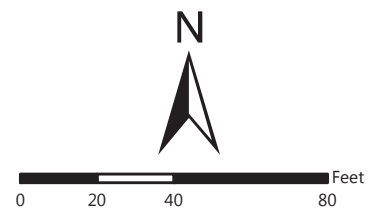


Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.

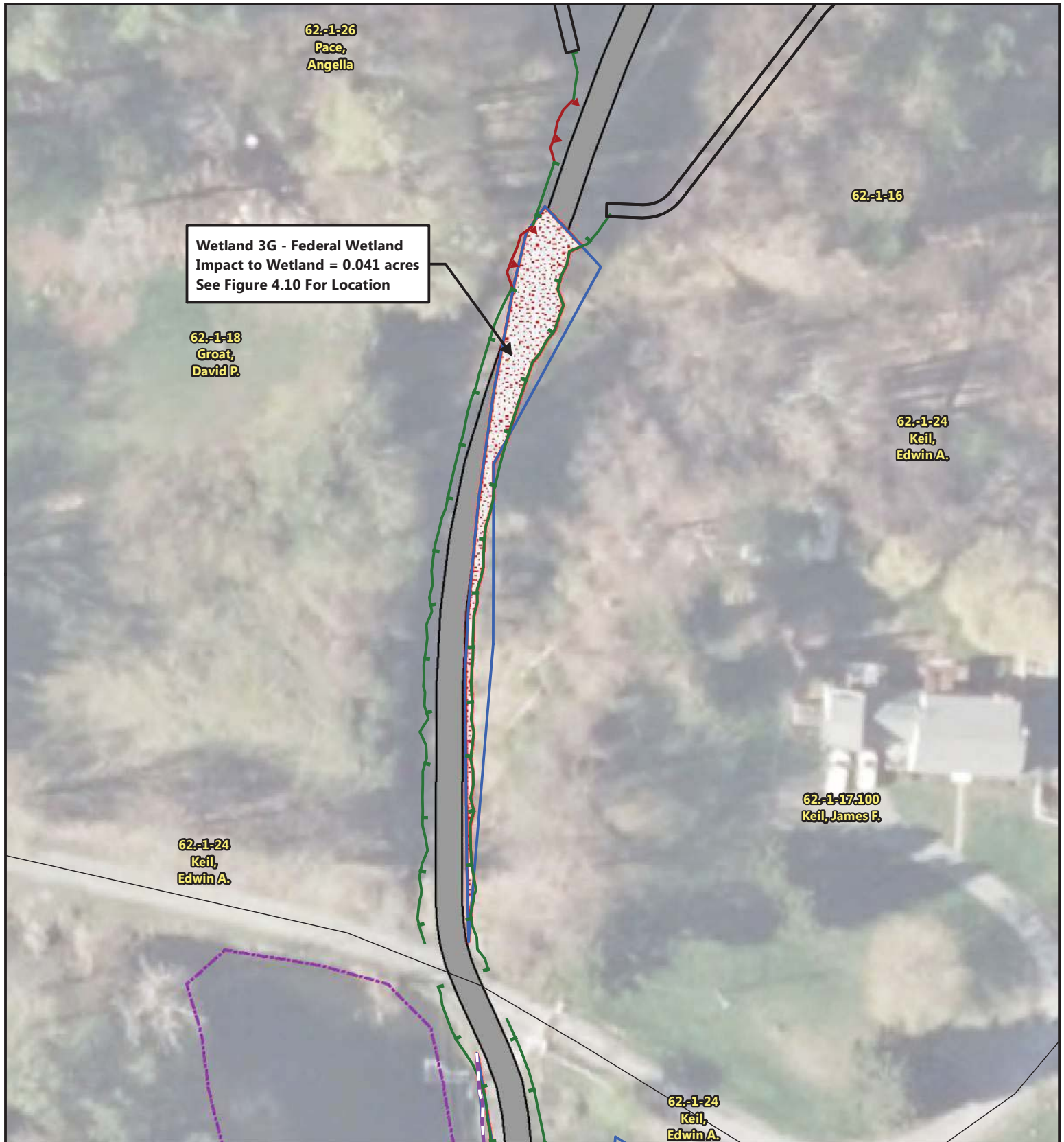
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.10.4 - Wetland 3G**  
**Town of Stockport - Columbia County AHET Alignment**



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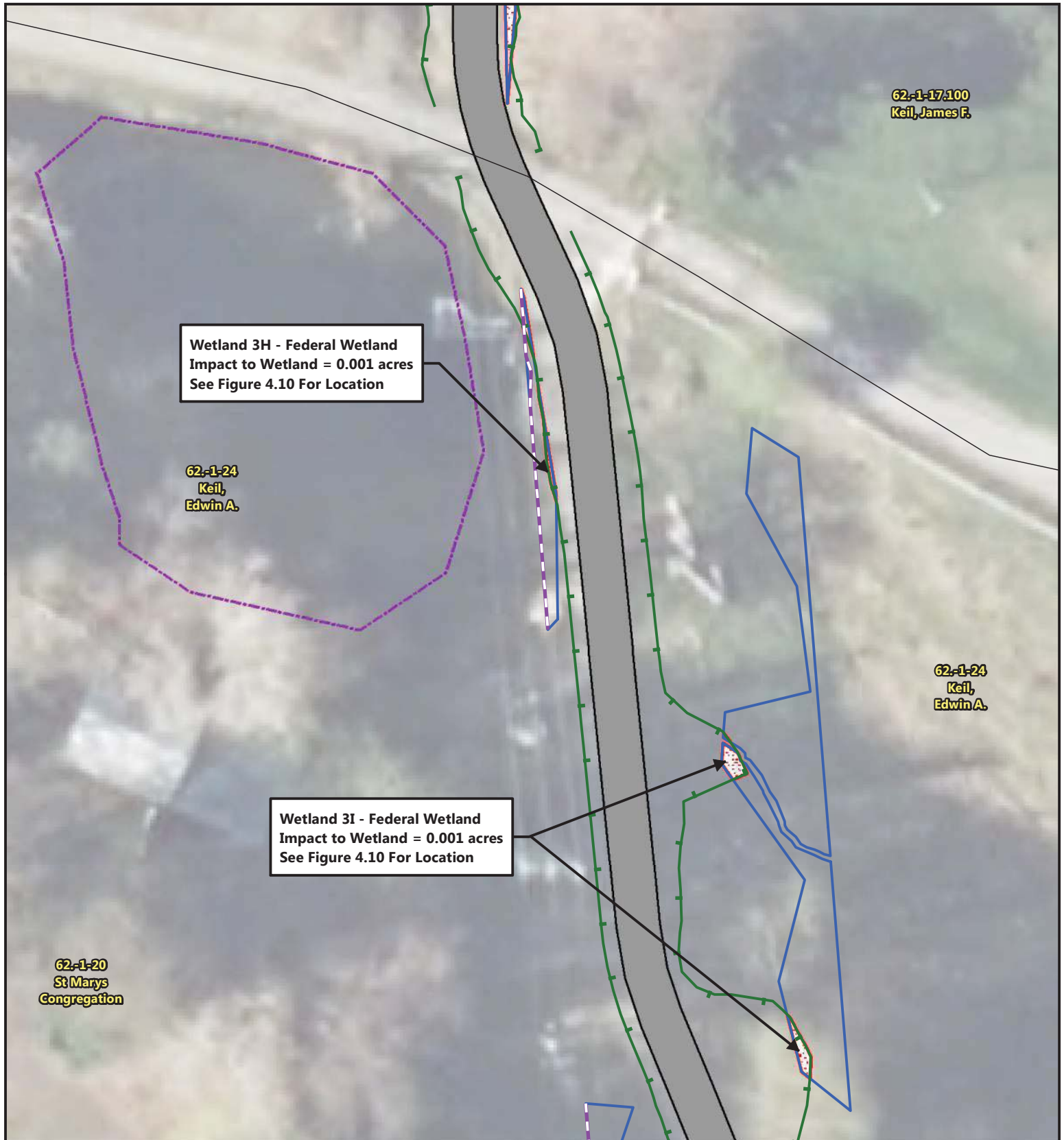
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 20 40 80 Feet



**Figure 4.10.5 - Wetland 3H & 3I**  
**Town of Stockport - Columbia County AHET Alignment**



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**Legend**

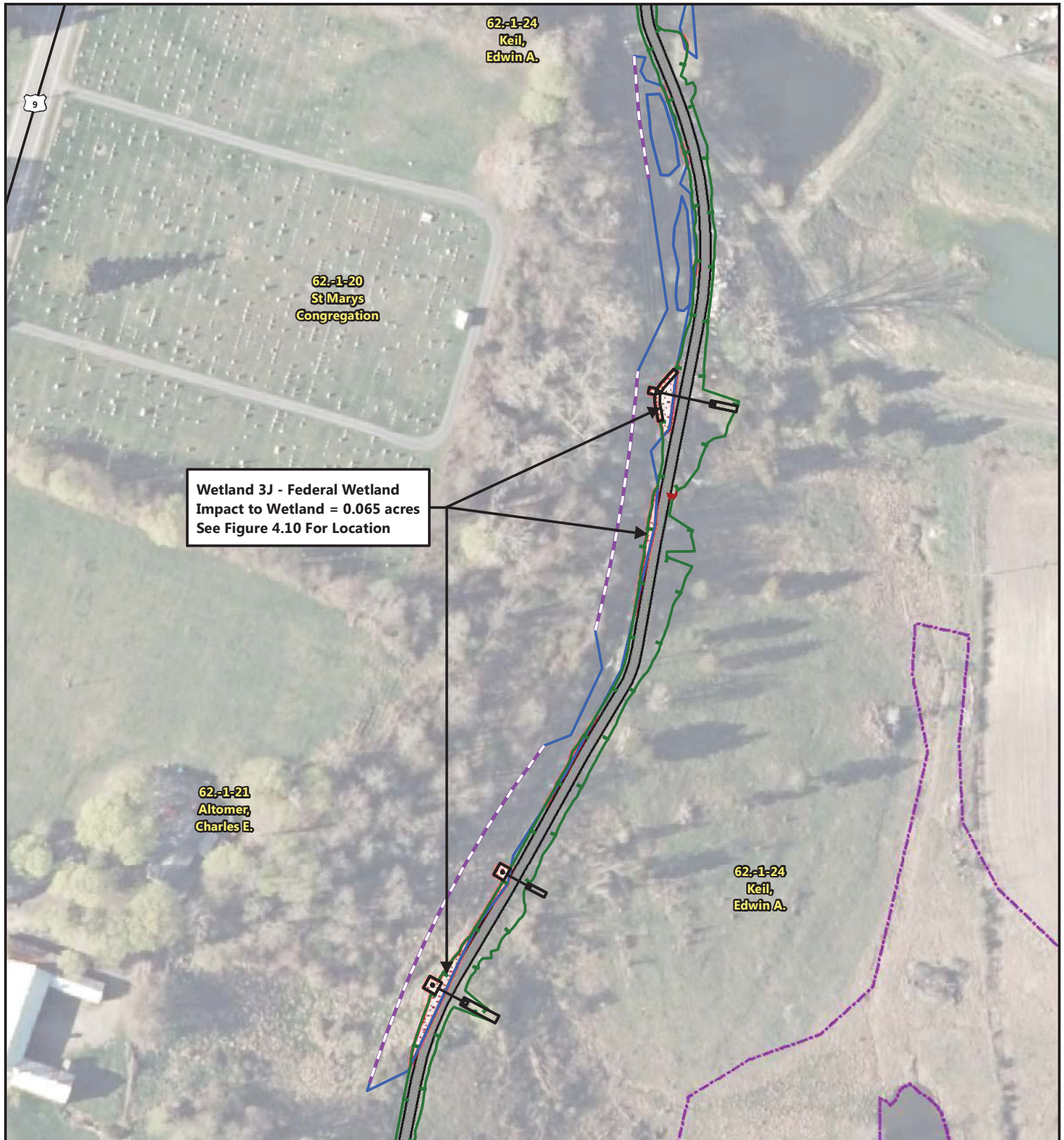
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet





**Figure 4.10.6 - Wetland 3J**  
**Town of Stockport - Columbia County AHET Alignment**

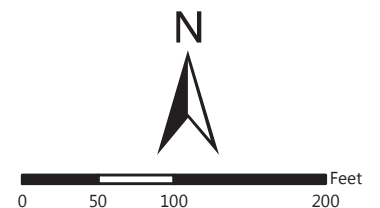


Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018





**Figure 4.10.7 - Wetland 3K**  
**Town of Stockport - Columbia County AHET Alignment**

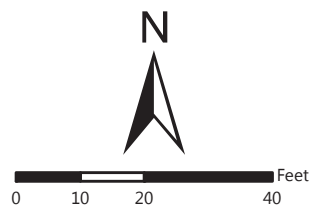


*Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.10.8 - Wetland 3L**  
**Town of Stockport - Columbia County AHET Alignment**

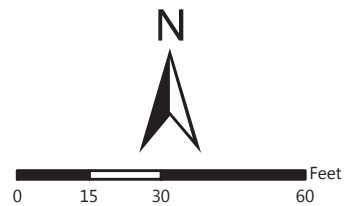


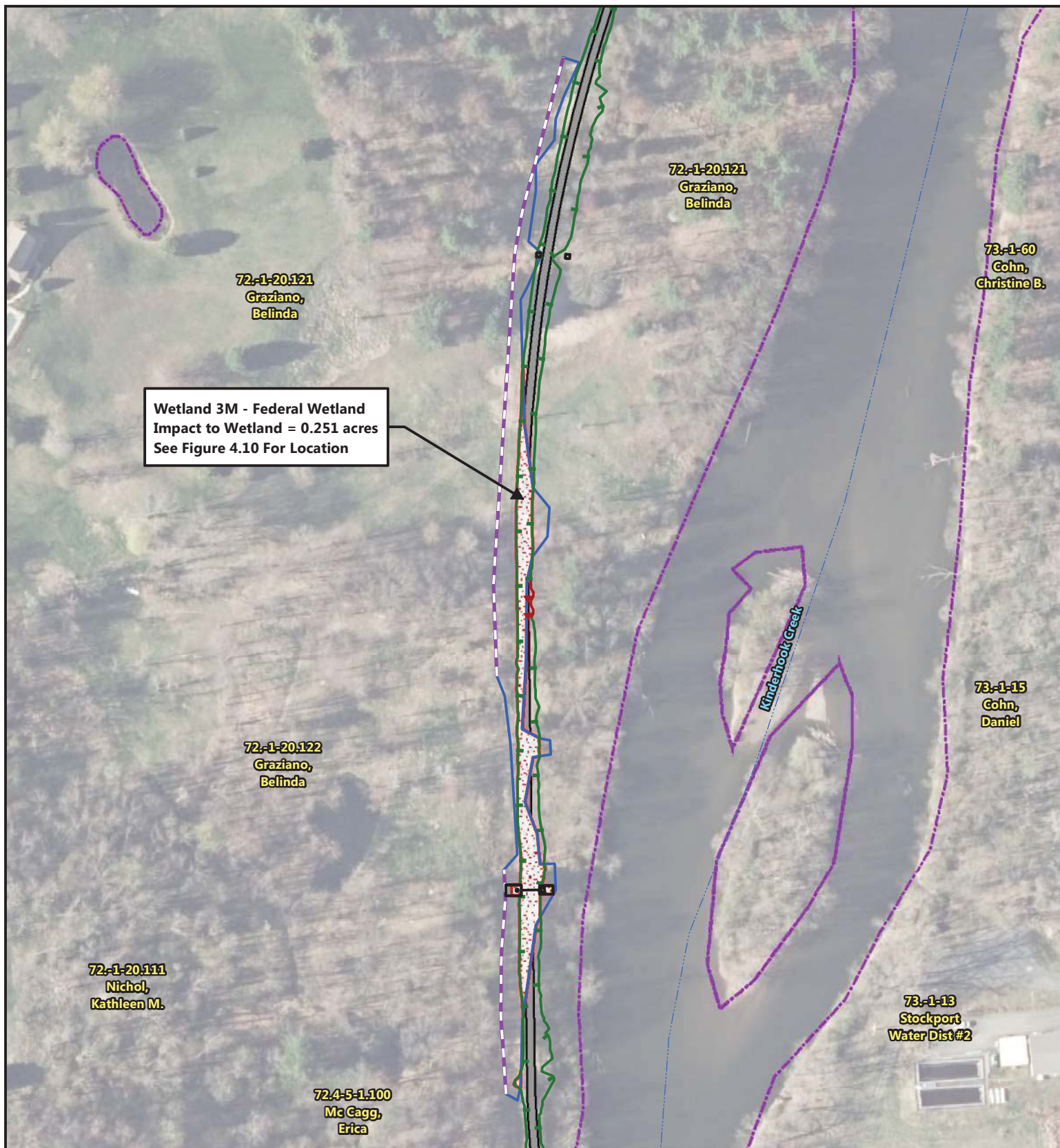
Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018





**Figure 4.10.9 - Wetland 3M**  
**Town of Stockport - Columbia County AHET Alignment**

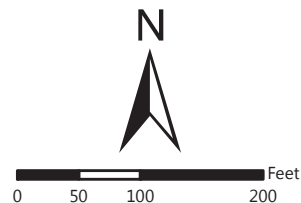


Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.

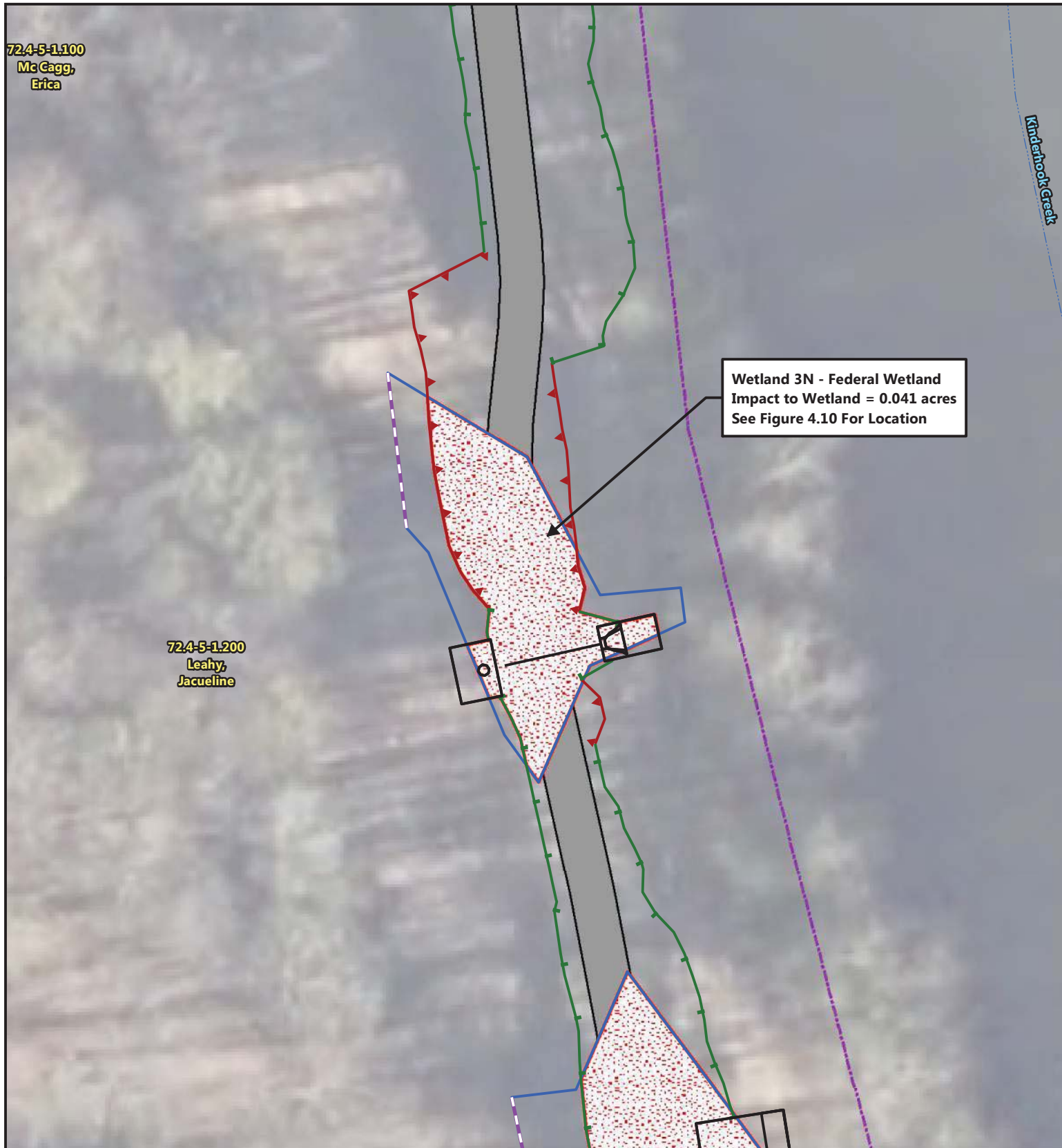
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.10.10 - Wetland 3N**  
**Town of Stockport - Columbia County AHET Alignment**

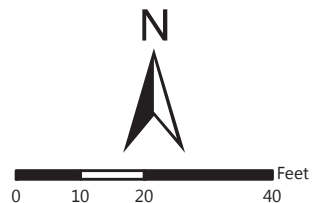


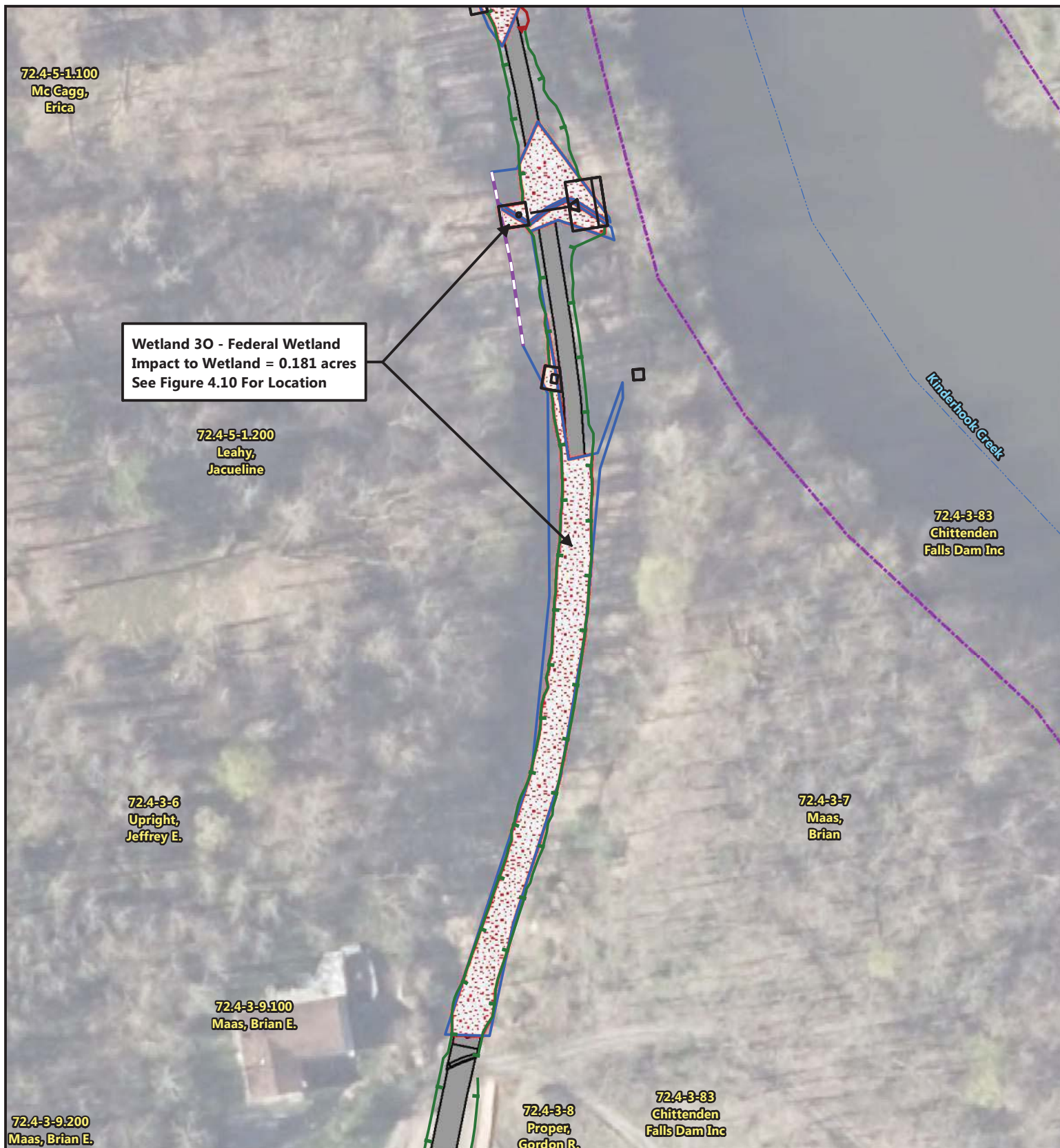
Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018





**Figure 4.10.11 - Wetland 30**  
**Town of Stockport - Columbia County AHET Alignment**

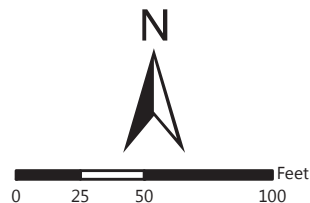


Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

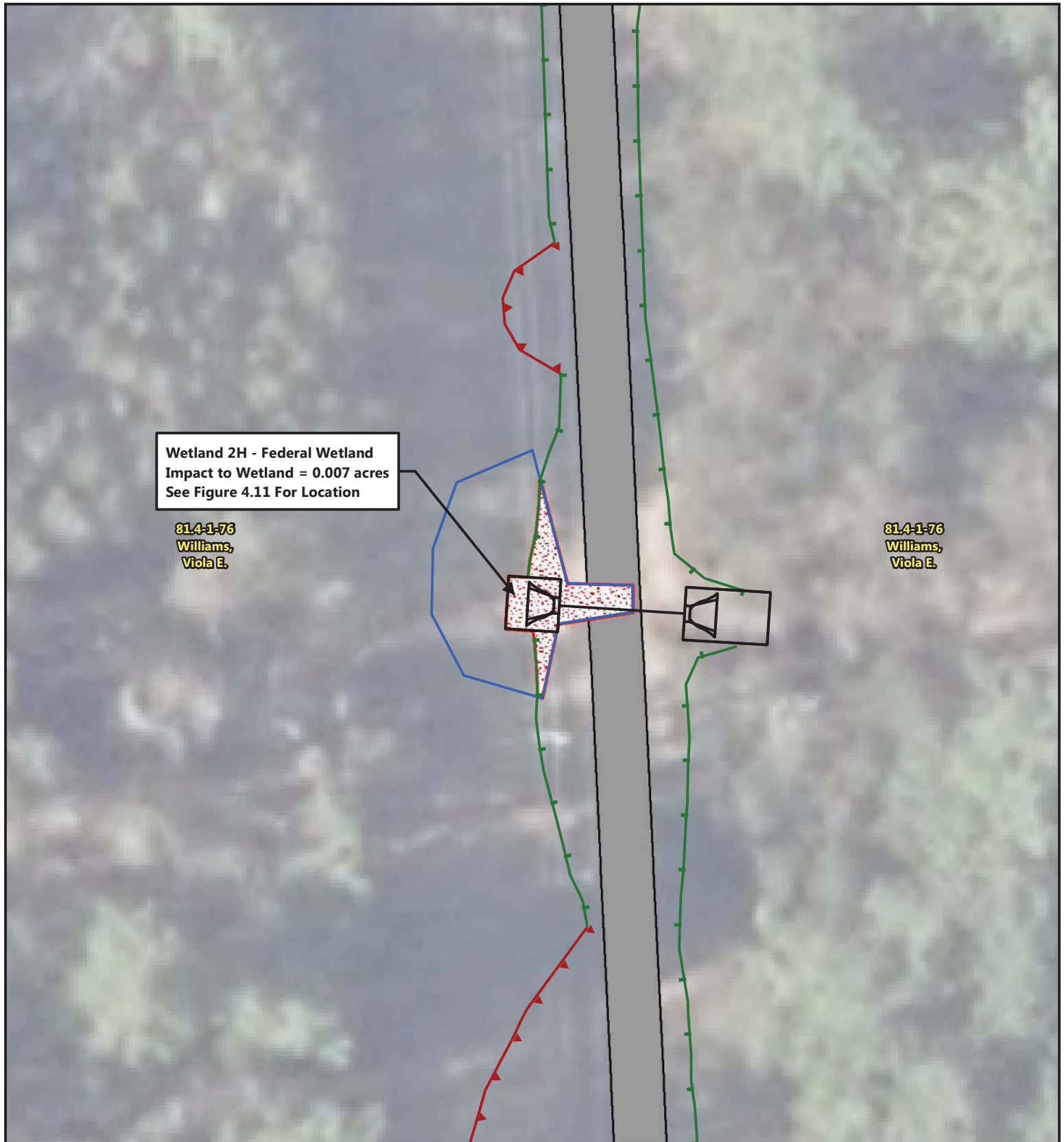
**Legend**

- Delineated Wetland
- Wetland Impact
- Cut Line
- Fill Line
- Culvert & Stone Apron
- Wetland Continues
- Trail Alignment
- Mapped MWI Wetland
- Mapped Stream

Issuance Date: 11/07/2018







**Figure 4.11.1 - Wetland 2H**  
**Town of Stockport - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

**Issuance Date: 11/07/2018**



0 10 20 40 Feet



**Figure 4.11.2 - Wetland 2E**  
**Town of Stockport - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

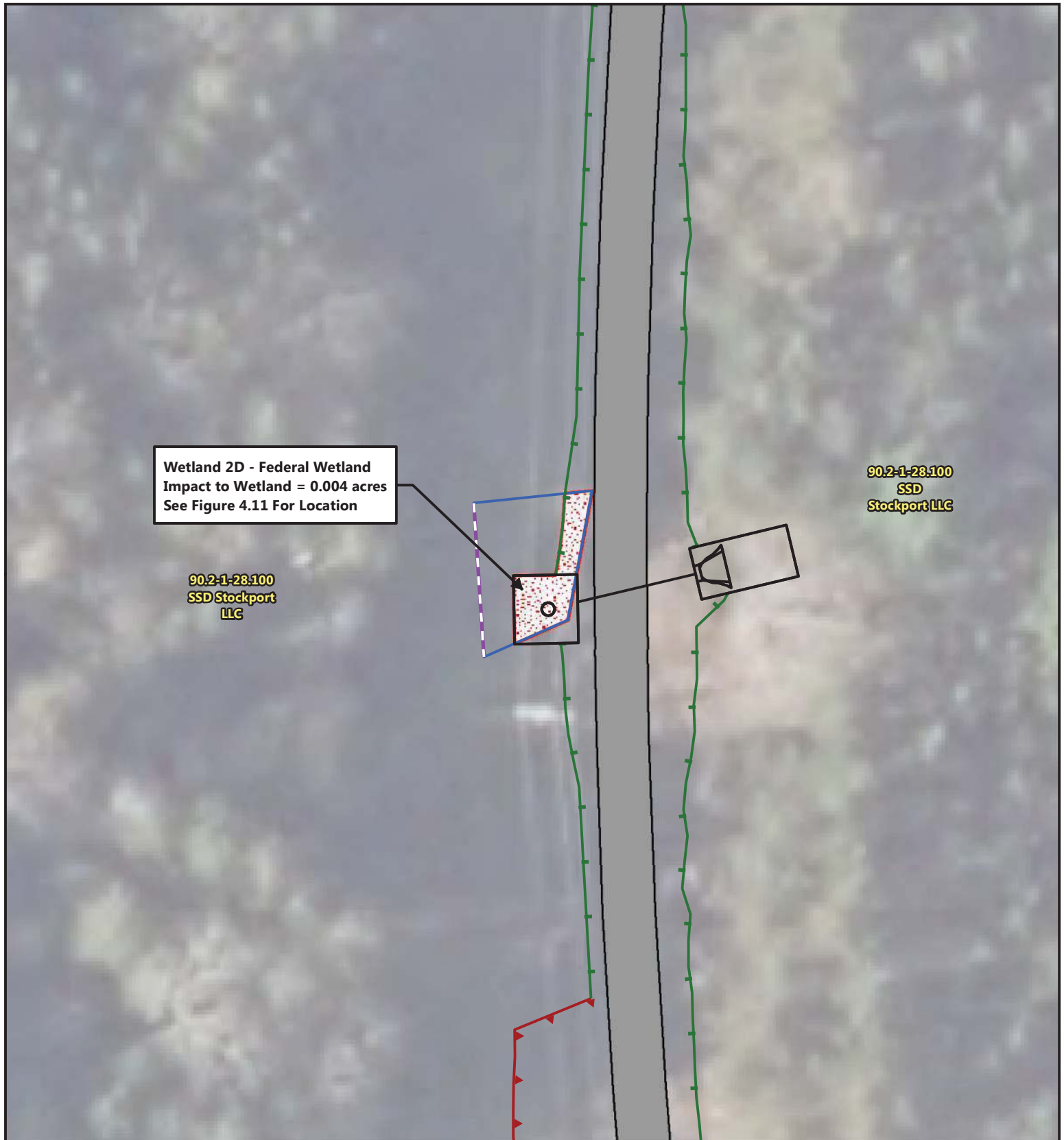
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet





**Figure 4.11.3 - Wetland 2D**  
**Town of Stockport - Columbia County AHET Alignment**



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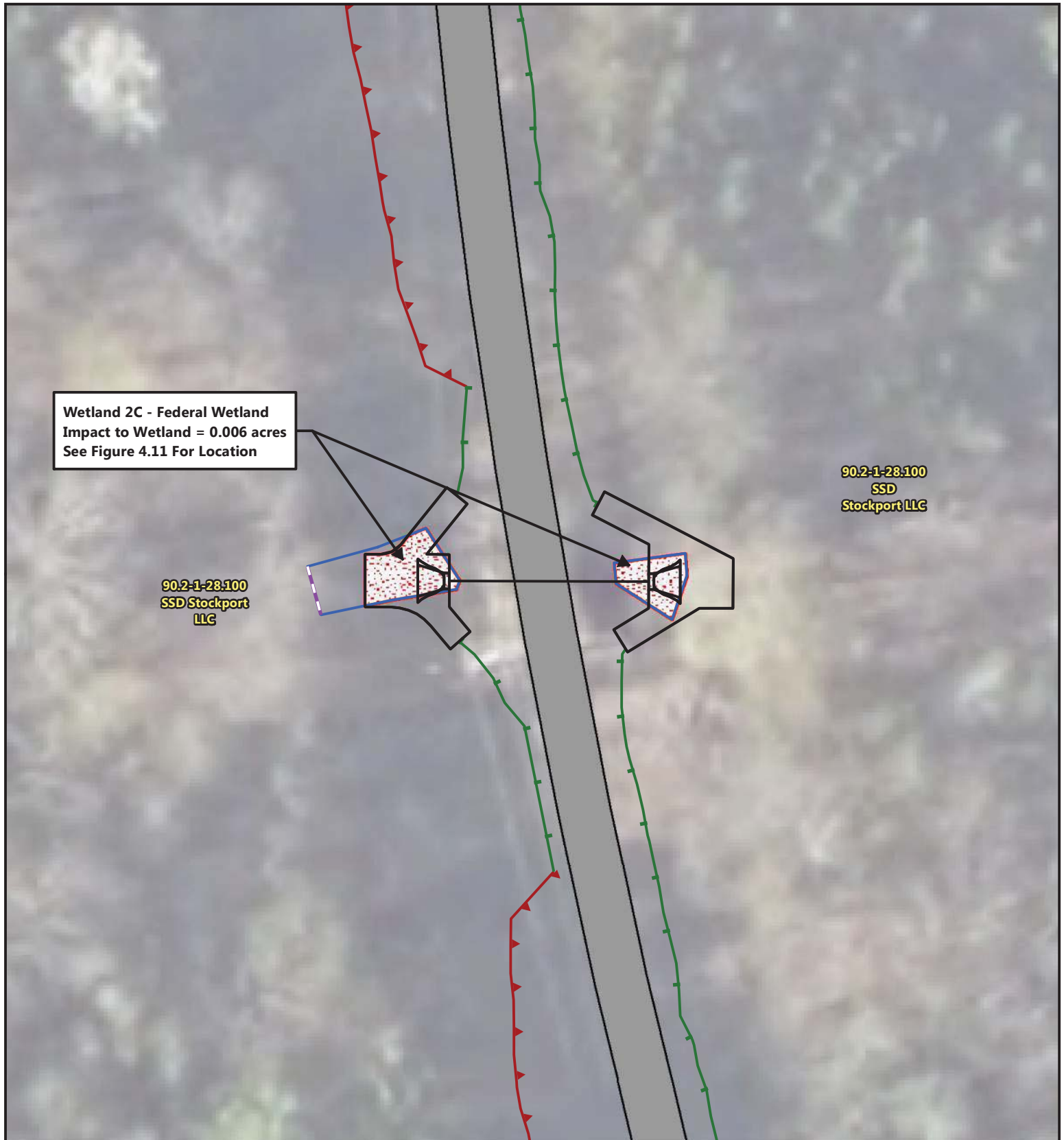
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet



**Figure 4.11.4 - Wetland 2C**  
**Town of Stockport - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet





**Figure 4.11.5 - Wetland 2B**  
**Town of Stockport - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet



**Figure 4.12.1 - Wetland 2A**  
**Town of Stockport - Columbia County AHET Alignment**



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Other Third Parties.

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 20 40 80 Feet





**Figure 4.12.2 - Wetland 4A & 4B  
Town of Stockport - Columbia County AHET Alignment**

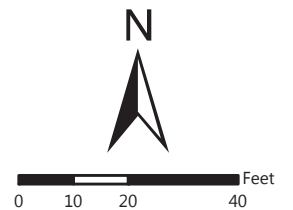


*Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

**Issuance Date: 11/07/2018**





**Figure 4.12.3 - Wetland 4C**  
**Town of Stockport - Columbia County AHET Alignment**

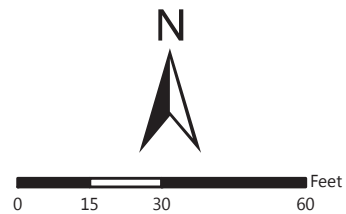


Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

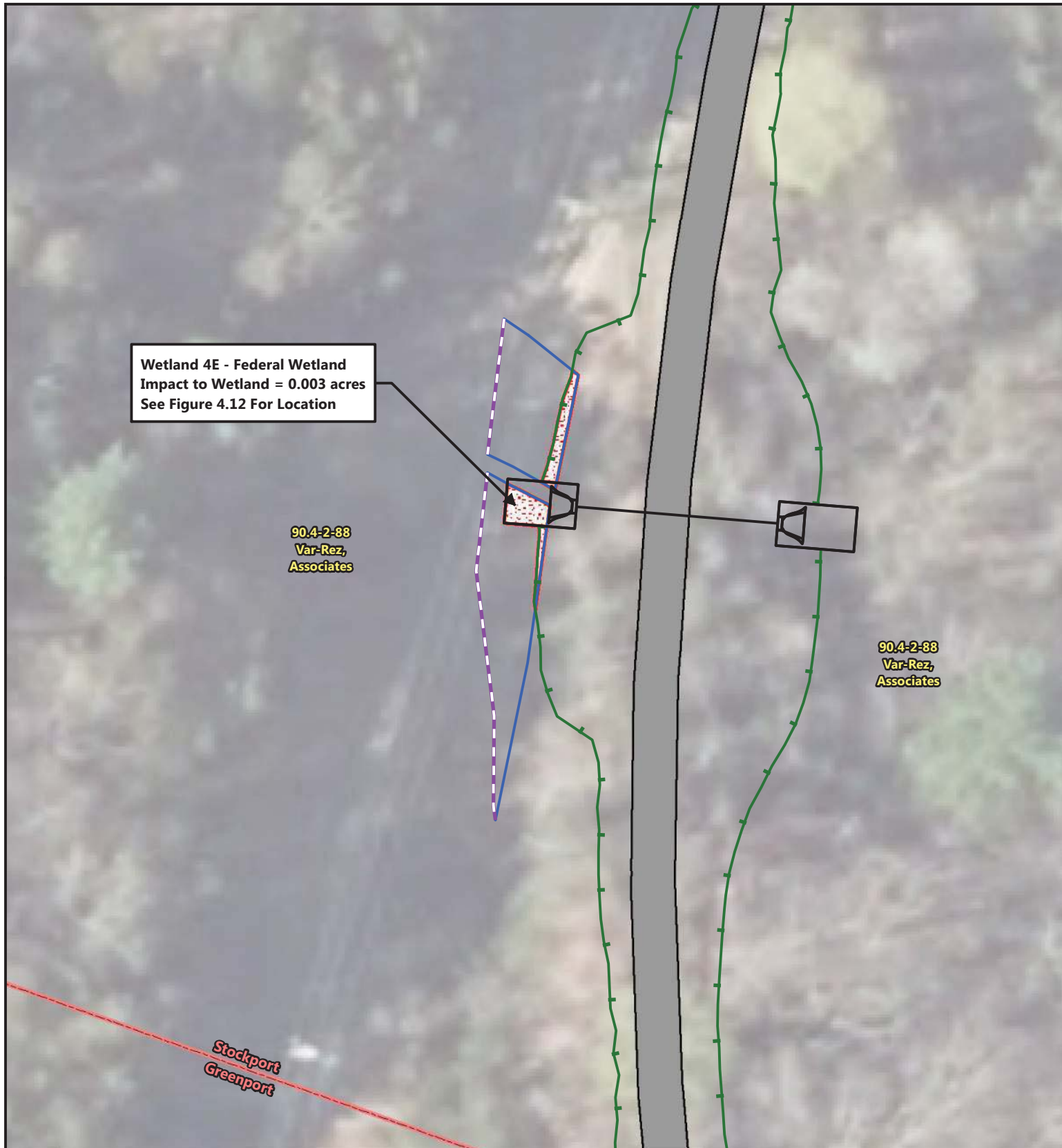
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018







**Figure 4.12.4 - Wetland 4E**  
**Town of Stockport - Columbia County AHET Alignment**



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 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

**Issuance Date: 11/07/2018**



0 10 20 40 Feet



**Figure 4.12.5 - Wetland 4G**  
**Town of Greenport - Columbia County AHET Alignment**



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 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.*

**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



0 10 20 40 Feet





**Figure 4.12.6 - Wetland 4H**  
**Town of Greenport - Columbia County AHET Alignment**



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 Other Third Parties.*

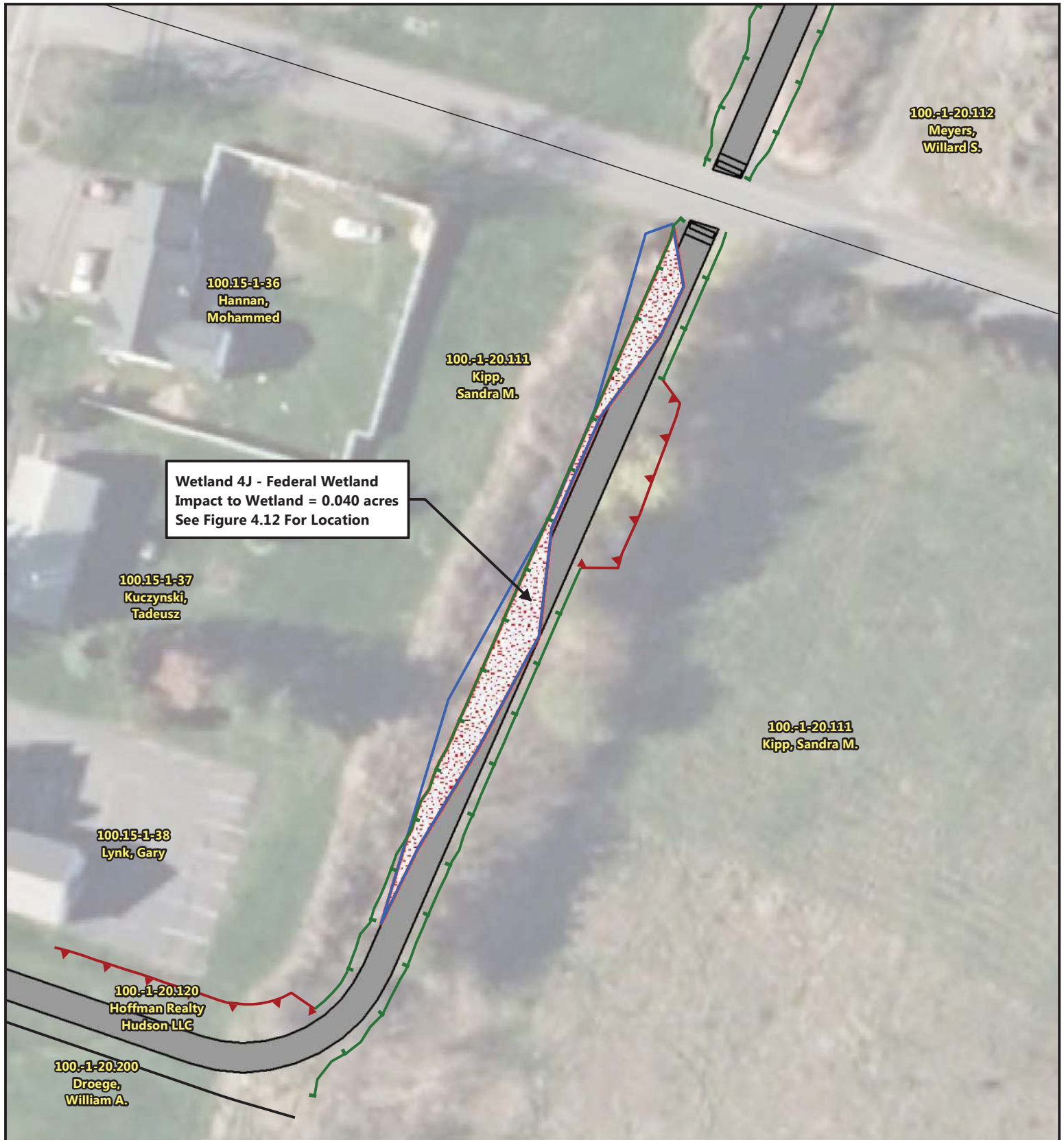
**Legend**

- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/5/2018



0 10 20 40 Feet



**Figure 4.12.7 - Wetland 4J**  
**Town of Greenport - Columbia County AHET Alignment**

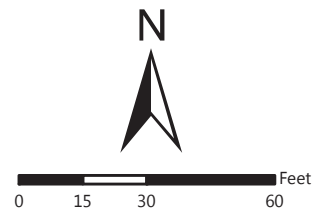


Produced For Planning Purposes Only.  
 Data provided by NYS GIS Clearinghouse &  
 Other Third Parties.

**Legend**

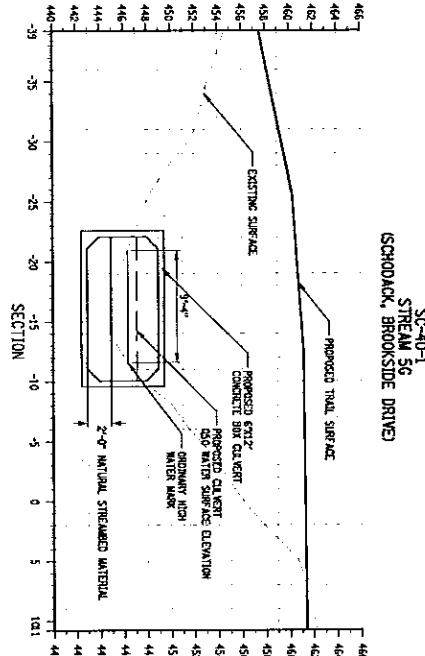
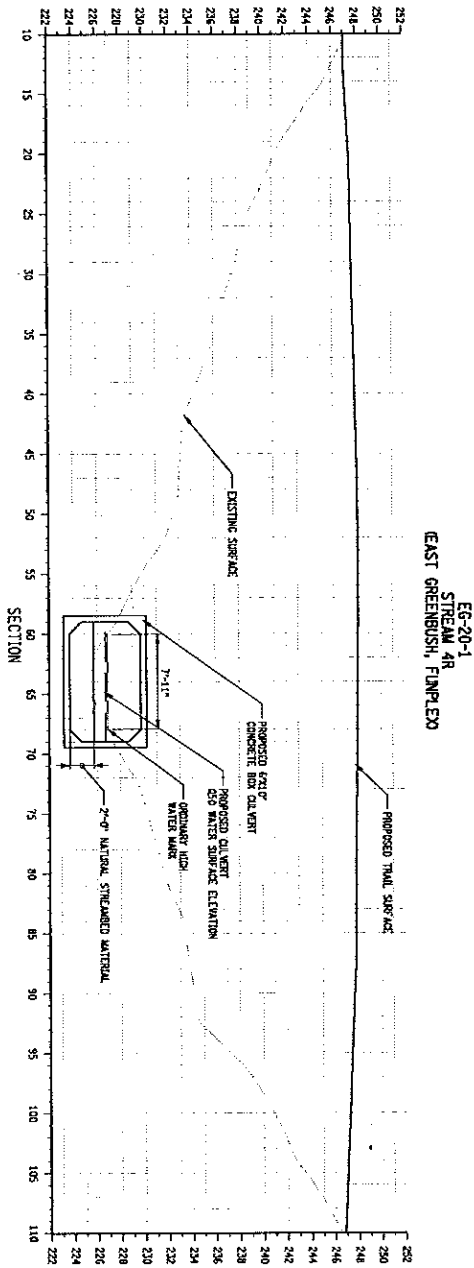
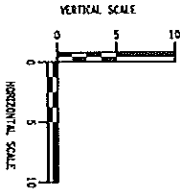
- |                       |                    |
|-----------------------|--------------------|
| Delineated Wetland    | Wetland Continues  |
| Wetland Impact        | Trail Alignment    |
| Cut Line              | Mapped MWI Wetland |
| Fill Line             | Mapped Stream      |
| Culvert & Stone Apron |                    |

Issuance Date: 11/07/2018



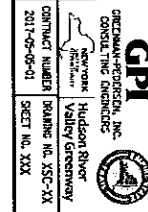


Stream Impact Response Table 4.1							
Stream ID	Stream Type	Stream Classification	Stream	Culvert ID	Culvert Size & Type	Total Stream Impacts	Culvert Bottom Treatment
4R	Intermittent	C	Trib. to Mill Creek	EG-20-1	42" RCP	131 LF	20% Embedded Natural Stream Material
5G	Perennial	C	Trib. to Moordeener Kill	SC-40-1	6'x12' Concrete Box	95 CY, 600 SF, 0.01 Acres 90 LF	2ft Embedded Natural Stream Material
4O	Perennial	C	Trib. to Kinderhook Creek	SP-60-1	6'x11' Concrete Box	210 CY, 1340 SF, 0.03 Acres, 190 LF	2ft Embedded Natural Stream Material
4F	Perennial	C	Trib. to Kinderhook Creek	GR-16-2	6'x13' Concrete Box	110 CY, 790 SF, 0.02 Acres, 100 LF	2ft Embedded Natural Stream Material

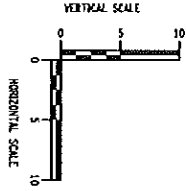


NOT FOR CONSTRUCTION

AS BUILT RECORDING		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
ALBANY-HUDSON ELECTRIC TRAIL, ROOSEVELT COUNTY		STREAM CROSSING	
CITY: ROOSEVELT		ISSUED ON	
TOWN: WADSWICK, GREENBUSH AND EAST GREENBUSH		1/26/2018	
VILLAGE: WADSWICK		CONTRACT NUMBER	
COUNTY: ROOSEVELT		2017-05-00-01	
UTM ZONE: 18		DRAWING NO. XSC-XX	
SHEET NO. 222		SHEET NO. 222	







**NOT FOR CONSTRUCTION**

THIS DRAWING IS THE PROPERTY OF GREENWAY CONSERVANCY FOR THE HUDSON RIVER VALLEY, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF GREENWAY CONSERVANCY FOR THE HUDSON RIVER VALLEY, INC. IS PROHIBITED. THE DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE.

COLUMBIA COUNTY, NEW YORK

TOWN OF GREENWICH, STOCKPORT, STONEWELL, AND CHATHAM

WILLIAMSBURG, AND WATKINS

UTAH, CLARK, D

REGION 1, 18

ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

STREAM CROSSING  
CROSS SECTIONS

ISSUED ON

12/6/2013

CONTRACT NUMBER

2013-05-01

BRIDGE NO. SSC-1X

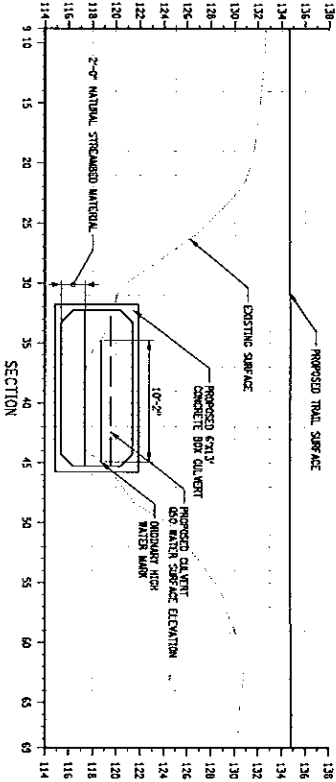
SHEET NO. XXX

GREENWAY CONSERVANCY FOR THE HUDSON RIVER VALLEY, INC.

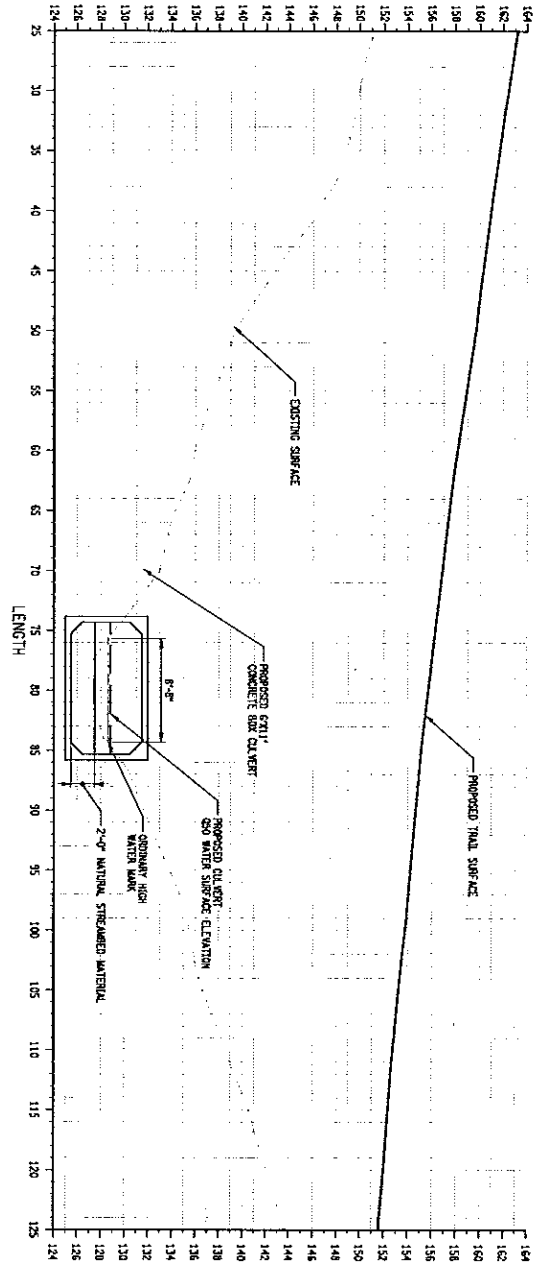
CONSULTING ENGINEERS

Harding Group

Valley Conservancy



GR-16-2  
STREAM 4F  
(GREENPORT, WALWART)





SP-60-1  
STREAM 40  
(STOCKPORT, KELL WASHOUT)

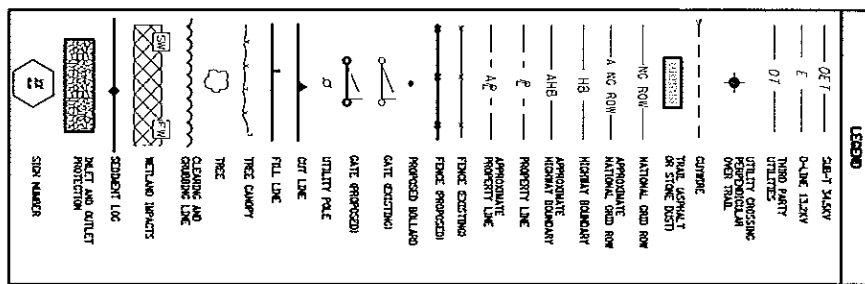
Linear Impacts To Waterways From Bridge Construction	
Location	Impact (Linear Feet)
Bridge A	42
Bridge B	62
Bridge C	112
Bridge D	69
Bridge E	110
Bridge F	62
<b>TOTAL</b>	<b>457</b>





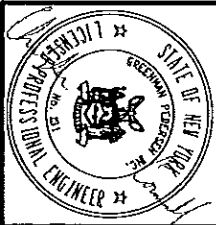
ALBERT-HADSON ELECTRIC TAIL (COLUMBIA CANYON) <div style="text-align: center;">  </div> REINFORCEMENT FILL BELOW D.A.M. RECON. ADJUSTMENT + 4.415 FT. SEE ADJUSTMENT + 4.421 FT.		ALL DIMENSIONS IN FT. UNLESS OTHERWISE NOTED	
TYPICAL BRIDGEPIER, STONECUT, STONECUT, STONECUT, AND CANTILEVER WELDED ENDPIER, AND CANTILEVER COLUMBIA, COLUMBIA		BRIDGE A EARTHWORK SECTIONS	
UPTL D.A.M. 0 REGION 8		ISSUED ON 11/7/2000 CONTRACT NUMBER 2011-05-05-01 SHEET NO. 182	
GORDON-KOENIG, INC. CONSULTING ENGINEERS 10000 River Valley Greenway Houston, Texas 77054-1100 (713) 465-1100 www.gordon-koenig.com		GPI 	





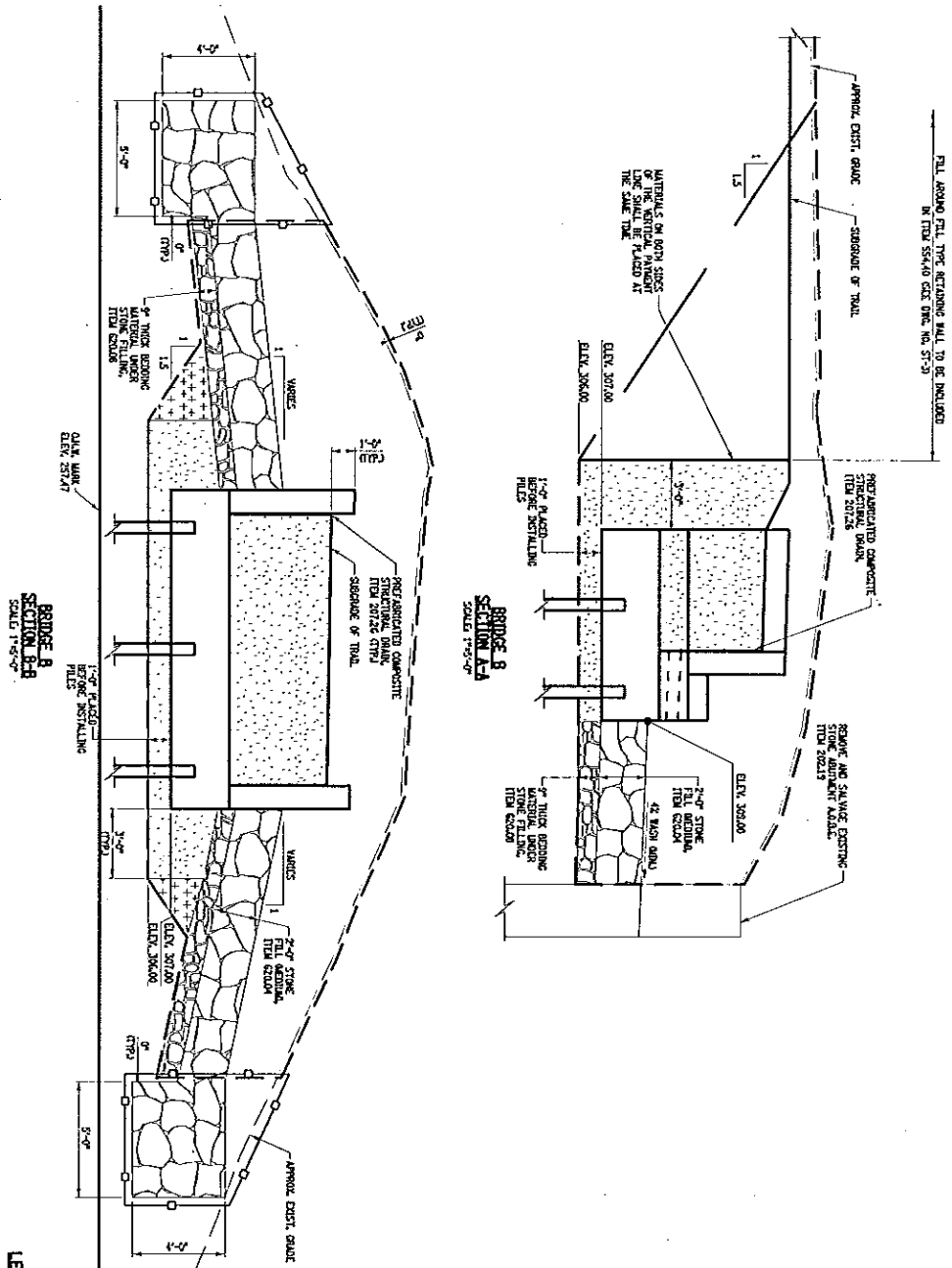
## REVIEW SUBMISSION

[illegible]

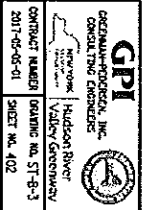


LEGEND  
 FOR LEGEND, SEE DET. NO. ST-6-2

<p>TO ALLY: REVISIONS</p> <p><b>REVIEW SUBMISSION</b></p>		<p>ALBANY-HUDSON ELECTRIC TRAIL, COLEMAN COUNTY</p>		<p>ALL DIMENSIONS IN FT. UNLESS OTHERWISE NOTED</p>	
<p>TOWN: DEERPORT, STONEWORT, STONEWORT, AND DARTMOUTH</p>		<p>DATE: 10/7/2016</p>		<p>BRIDGE B                  EARTHWORK SECTIONS - 1</p>	
<p>COUNTY: COLEMAN</p>		<p>BRIDGE B</p>		<p>ISSUED ON: 10/7/2016</p>	
<p>CONTRACT NUMBER: 2017-05-01</p>		<p>CONTRACT NUMBER: 2017-05-01</p>		<p>CONTRACT NUMBER: 2017-05-01</p>	
<p>DESIGNED BY: P. EDWARDS</p>		<p>DESIGNED BY: P. EDWARDS</p>		<p>DESIGNED BY: P. EDWARDS</p>	
<p>CHECKED BY: B. YEAGER</p>		<p>CHECKED BY: B. YEAGER</p>		<p>CHECKED BY: B. YEAGER</p>	
<p>DRAWN BY: J. SMULET</p>		<p>DRAWN BY: J. SMULET</p>		<p>DRAWN BY: J. SMULET</p>	
<p>PROJECT MANAGER: C. CORWELL</p>		<p>PROJECT MANAGER: C. CORWELL</p>		<p>PROJECT MANAGER: C. CORWELL</p>	



LEGEND  
 PERMANENT FILL, DRAIN, GULCH, BECM, REINFORCEMENT, 0.00 CY













**REFERENCE**  
FOR LEGEND, SEE DFC. HQ. ST-0-2


## LEGEND

PERMANENT FILL 382.00 CY  
BEGIN ADJUSTMENT = 59.5 CY

## REVIEW SUBMISSION

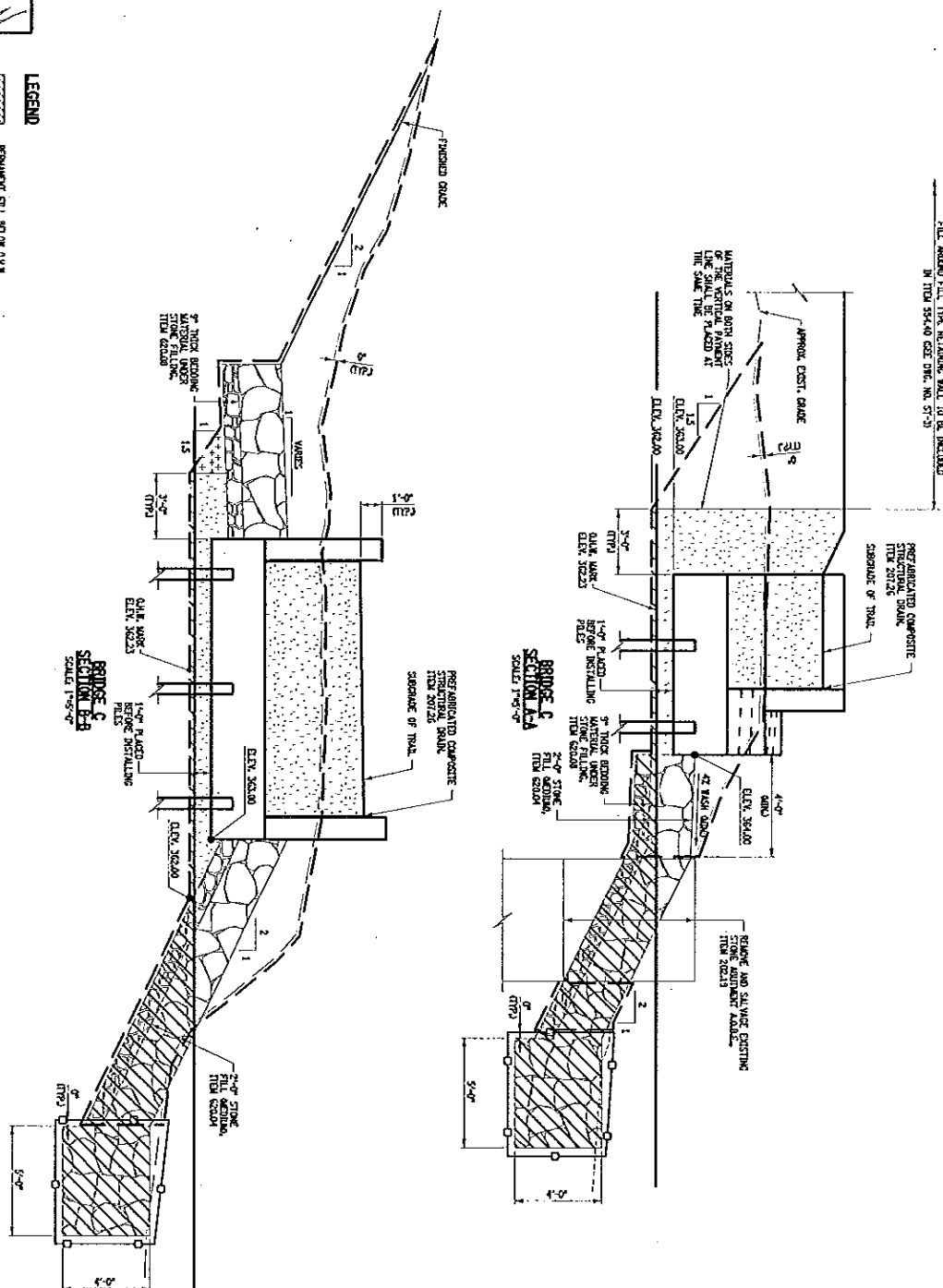
It is a violation of LAY 509, IN CASE THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR, TO OBTAIN OR ATTEMPT TO OBTAIN THE SEAL OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR WITHOUT BEING A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR. SHALL STATE THE DOCUMENT AND INCLUDE THE VIOLATION ALTERED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION, AND A BREVIER DESCRIPTION OF THE ALTERATION.

ALBANY-HOES ELECTRIC TRANSMISSION COMPANY	ALL DISSECTIONS IN 7' BUNDLES OTHERWISE NOTED
UTRI BENSELERS	
TOWNS MANICAL SPRINGHEAD, AND EAST BROOKFIELD	
TOTALS: MASSACHUSETTS	UTRI 24, 42, 0
COUNTY: BENSINGTON	REGION: I, A
	BRIDGES: 6
	EARTHWORK SECTIONS: - 1



**NYSDOT**  
**NEW YORK**  
 HUDSON RIVER  
 VALLEY DIVISION

**GPi**  
 GEOTECHNICAL-PERFORMANCE, INC.  
 CONSULTING ENGINEERS







**REFERENCE**  
FOR LEGEND, SEE OMC, NO. ST-B-4

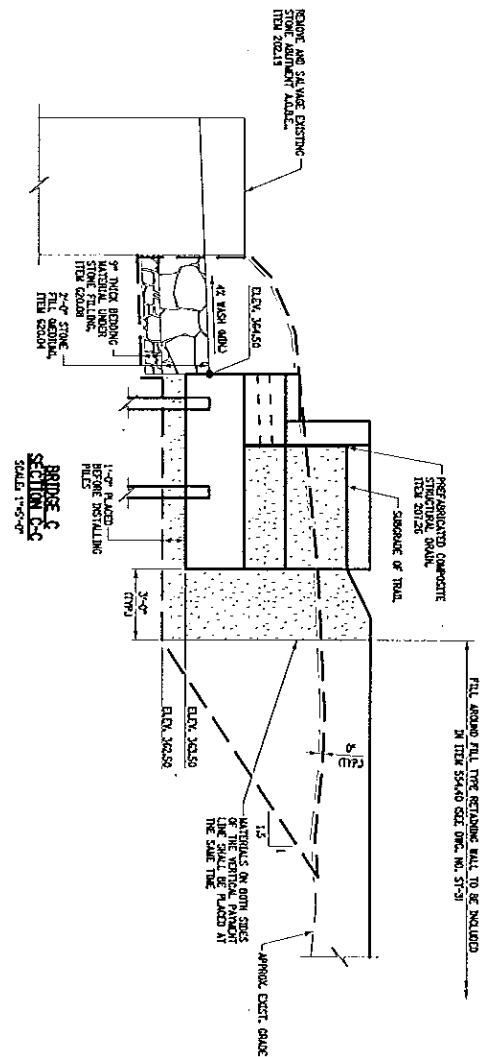
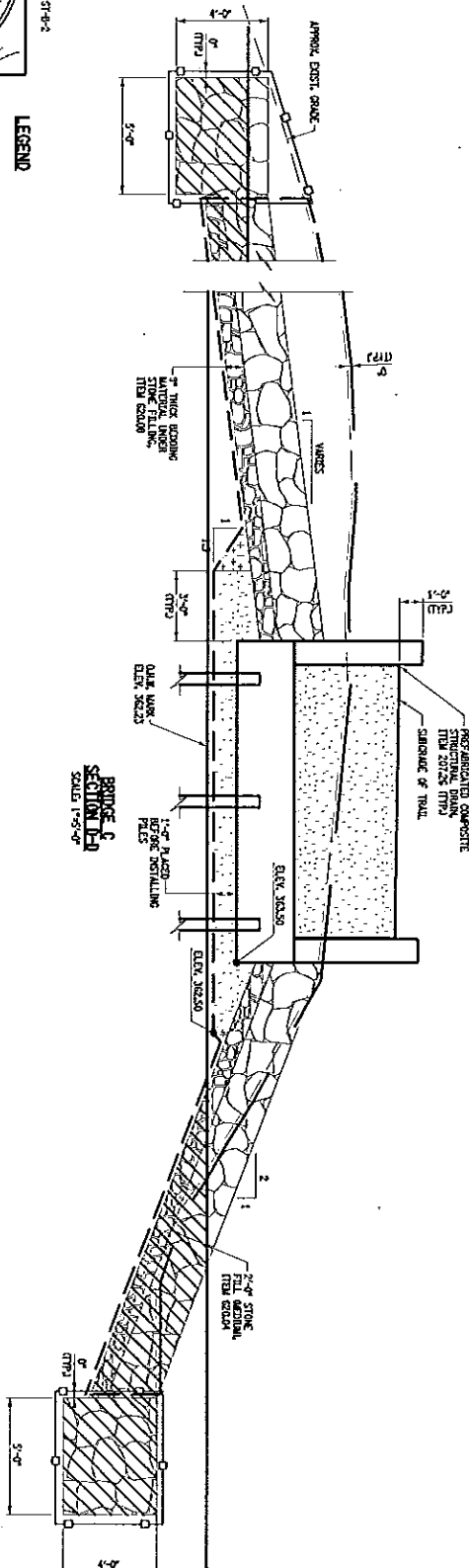
**LEGEND**

PERMANENT FILL BELOW G.H.W.  
END ABUTMENT - 46.35 CY

## REVIEW SUBMISSION

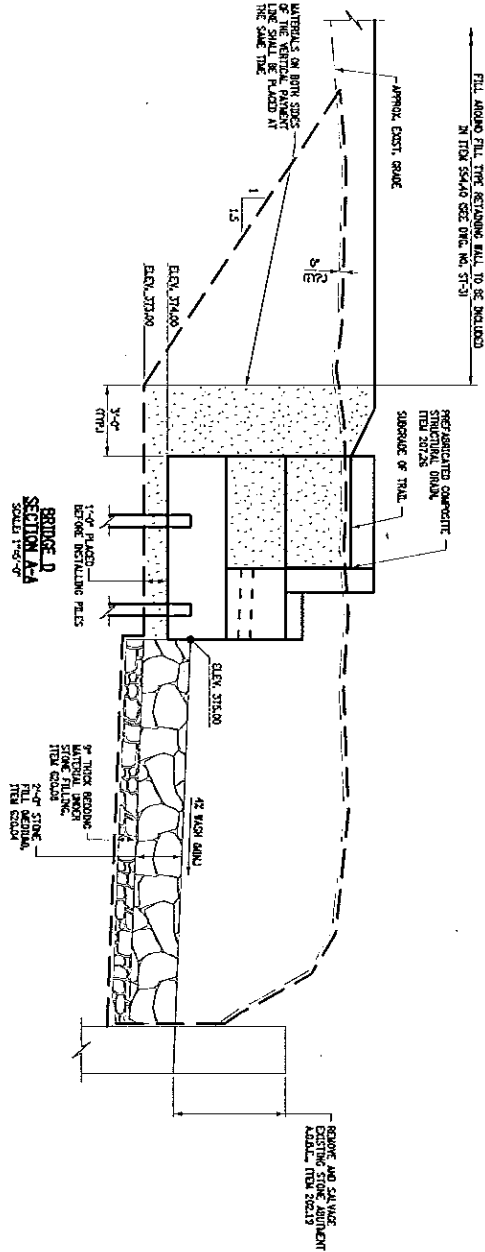
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL, ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER ANY MAP, PLAN, AND RECORDS THE SIGNATURE OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL BE CONSIDERED TO HAVE VIOLATED THE PROVISIONS OF THE PROFESSIONAL REGISTRATION ACT, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ALBERT-HARRIS ELECTRIC TREAT STORAGE LAGOON CITY, RENO, NEVADA	 <p><b>GPI</b> GEOGRAPHIC INFORMATION SYSTEMS, INC. CONSULTING DIVISION</p> <p>              RENO HARRIS VALLEY GROUNDS STORAGE LAGOON           </p>
7000, 8000, 9000, AND EAST GROUNDS	
WILLIAMS MOUND	
COUNTY, RENO, NEVADA	
ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED	
BRIDGE C EARTHMOX SECTIONS - 2 UNTIL DATE 0 REGION 1, 2	













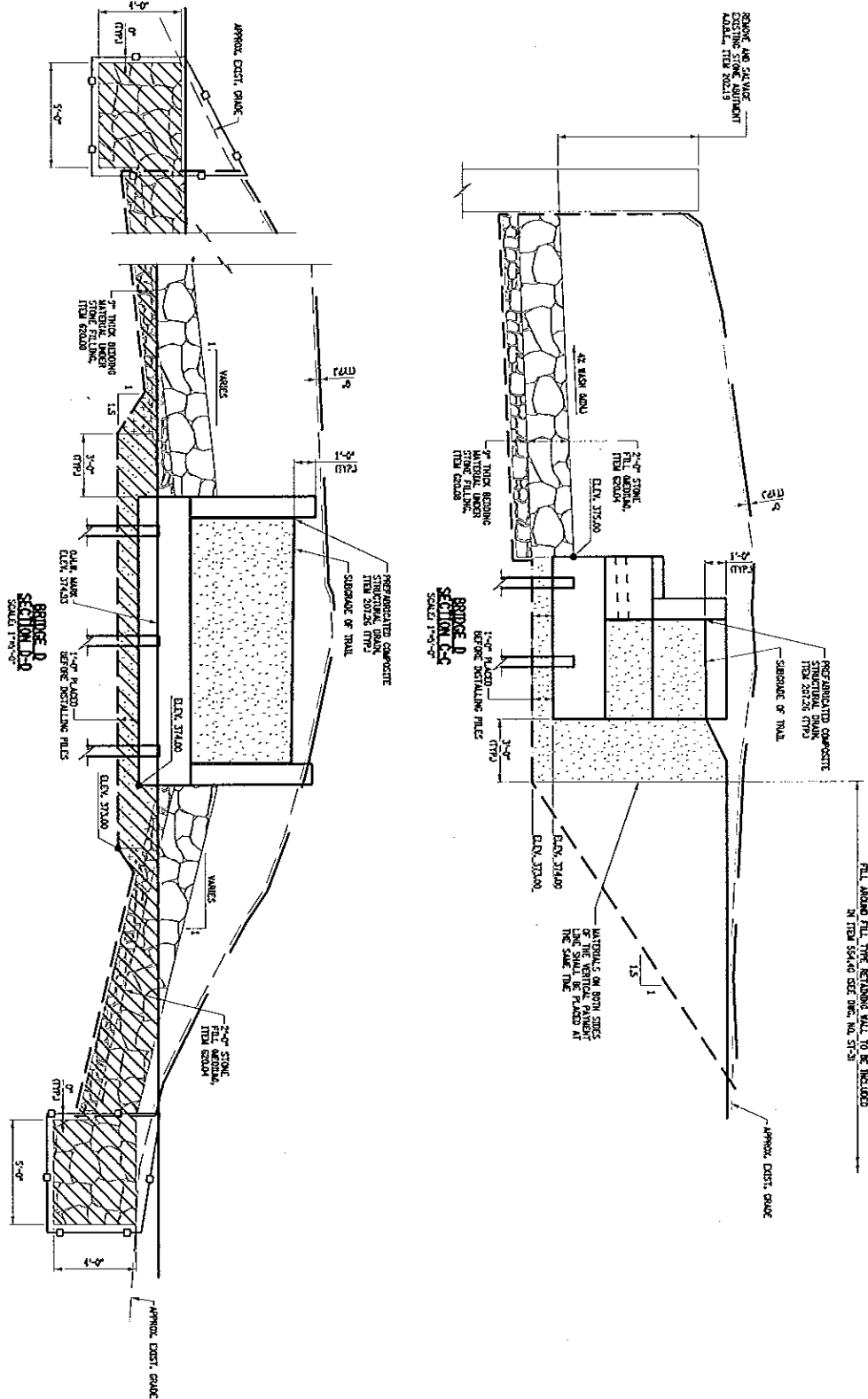
LEGEND  
FOR LEGEND, SEE DWG. NO. ST-0-2

LEGEND  
REMOVING FILL BELOW GRADE  
ON ADJUTMENT - 2013

### REVIEW SUBMISSION

IT IS A CONDITION OF THE CONTRACT FOR REVIEW AND APPROVAL OF THE SUBMISSION OF A LICENSED PROFESSIONAL ENGINEER'S DESIGN AND CONSTRUCTION OF A LICENSED PROJECT, THAT THE LICENSED PROFESSIONAL ENGINEER SHALL SUBMIT THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A BRIEF DESCRIPTION OF THE ALTERATION."

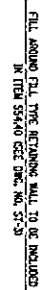
CLIENT: ALBANY-HUDSON ELECTRIC TRANSMISSION COMPANY	DESIGNER: B. THOMAS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	BRIDGE 0 EARTHWORK SECTIONS - 2	ISSUED ON: 11/7/2013	CONTRACT NUMBER: 2017-05-050	SHEET NO. 328
PROJECT: 100% DESIGN, CONSTRUCTION, AND EARTHWORK	DATE: 11/7/2013					
PROJECT: 100% DESIGN	DATE: 11/7/2013					





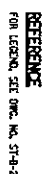








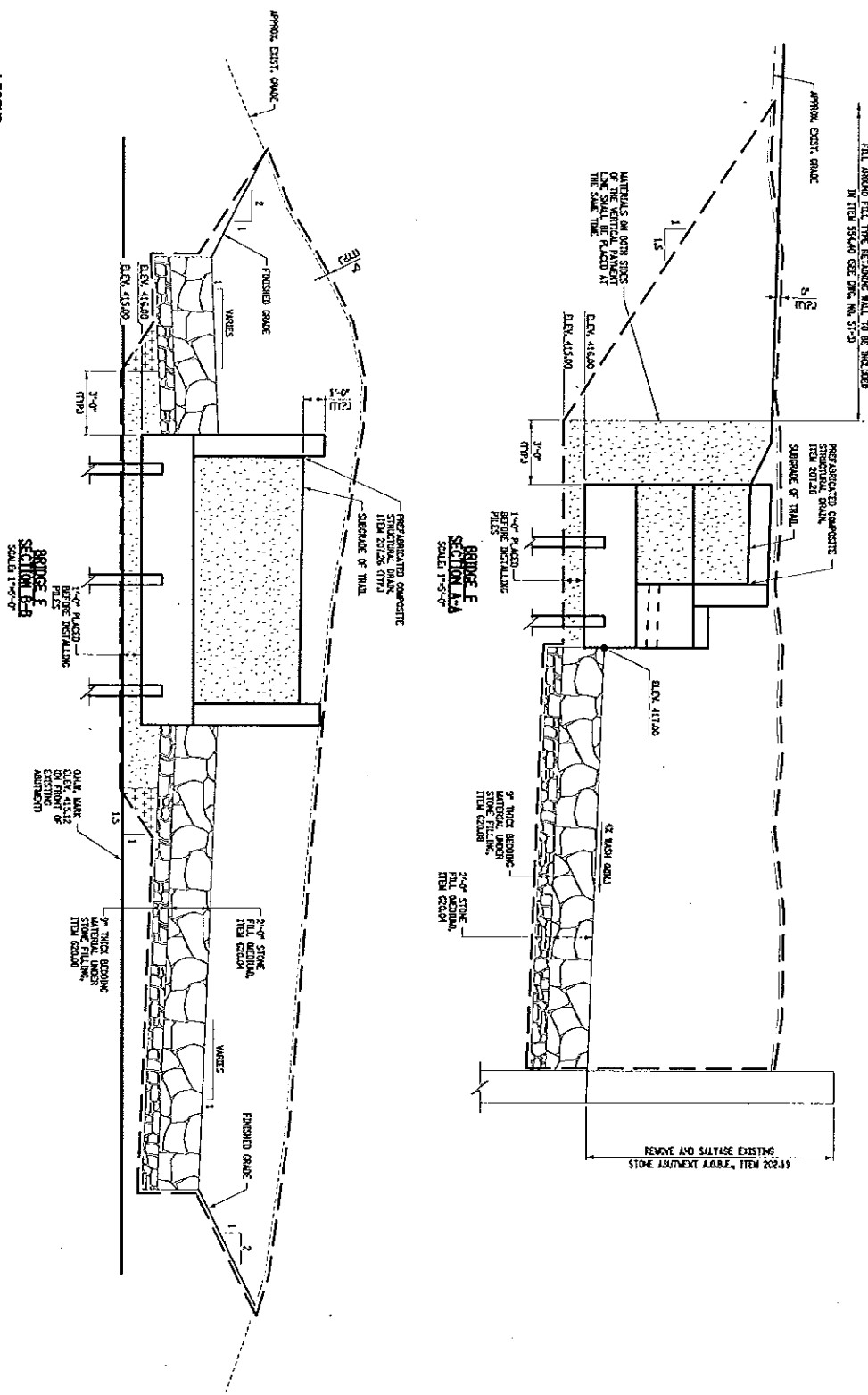




**LEGEND**

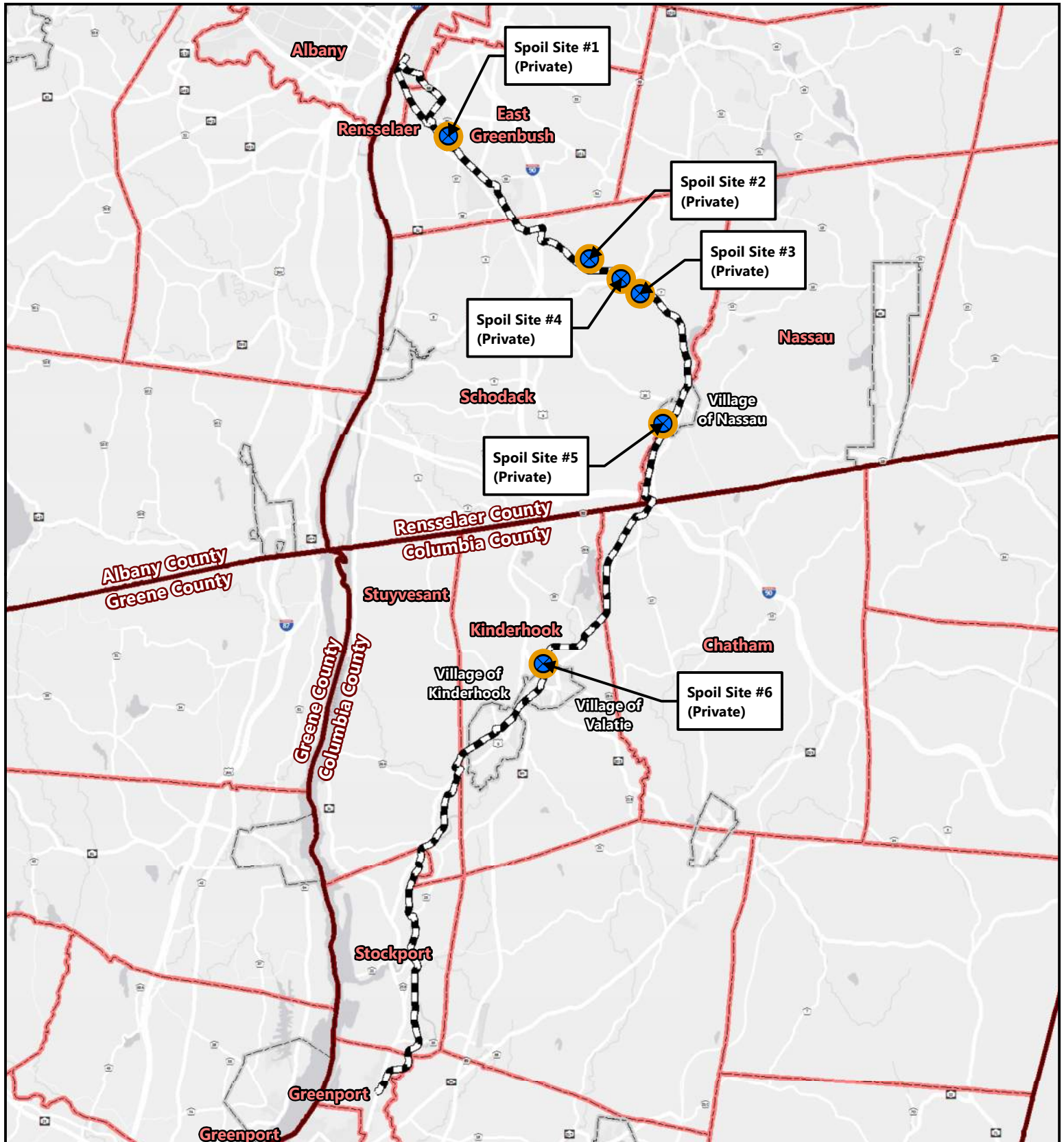
 PERMANENT FILL BELOW GRADE  
BEGIN ADJUSTMENT = 0.00 CT

## REVIEW SUBMISSION

[illegible][illegible]







## Potential Spoil Area Locations Rensselaer & Columbia Counties - Albany-Hudson Electric Trail



Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.

### Legend

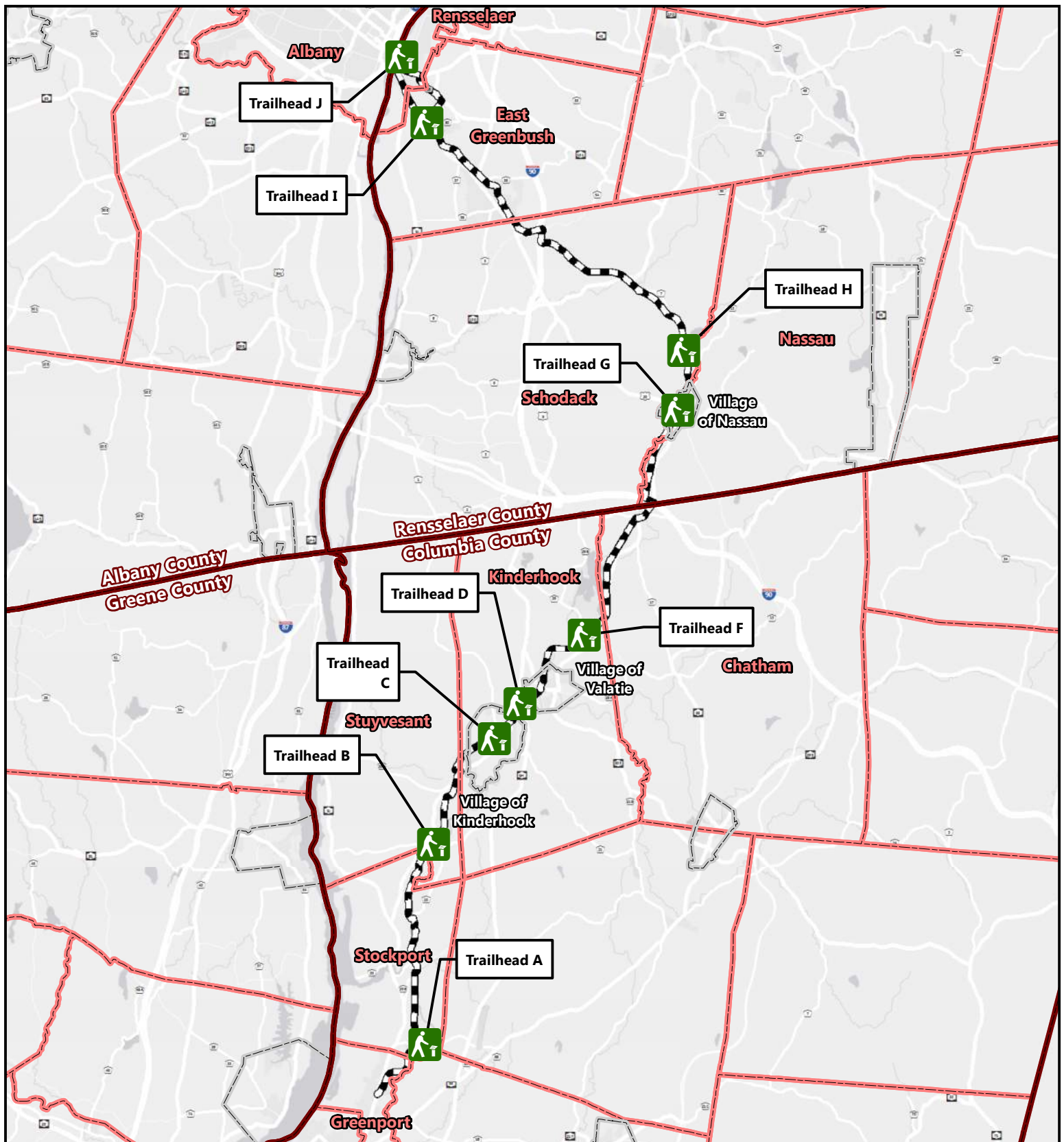
- Spoil Area
- AHET Alignment
- City/Town Boundary
- County Boundary
- Village Boundary



0 0.5 1 2 3 4 Miles

Issuance Date: 12/7/2018





## Trailhead Location

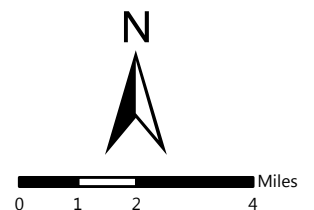
### Rensselaer & Columbia Counties - Albany-Hudson Electric Trail



*Produced For Planning Purposes Only.  
Data provided by NYS GIS Clearinghouse &  
Other Third Parties.*

#### Legend

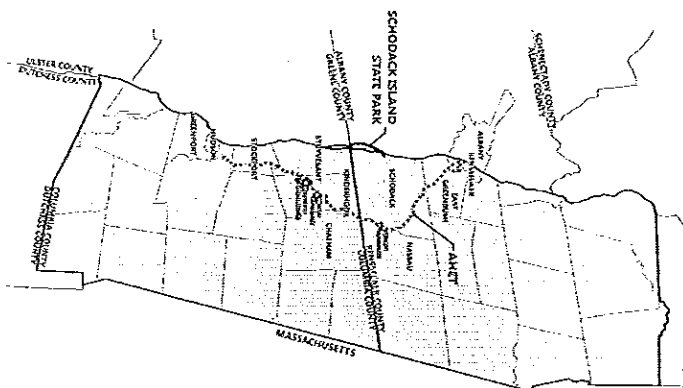
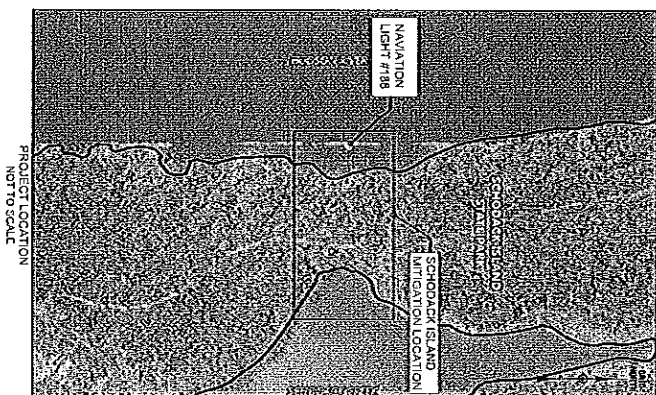
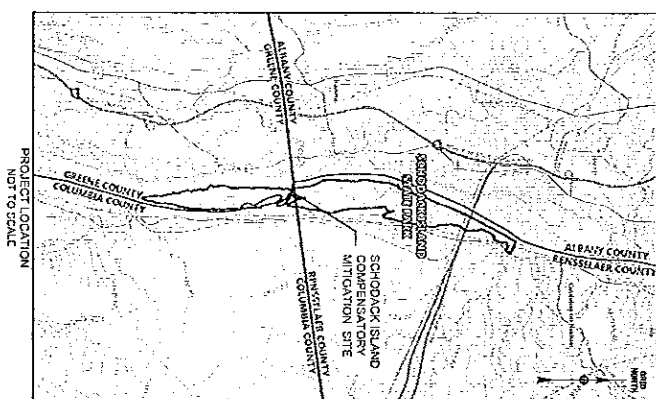
- |                  |                    |
|------------------|--------------------|
| Trailheads       | City/Town Boundary |
| AHET Alignment   | County Boundary    |
| Village Boundary |                    |



Issuance Date: 12/7/2018

CONTRACTORS NAME .  
AWARD DATE  
COMPLETION DATE  
FINAL ACCEPTANCE DATE

DIG DAILY NEW YORK  
UNDERGROUND FACILITIES PROTECTION ORGANIZATION  
CALL 811

RECOMMENDED BY \_\_\_\_\_ DATE \_\_\_\_\_  
DIRECTOR OF EMPIRE STATE TRAIL \_\_\_\_\_

**Hudson River  
Valley Greenway**



SCHODACK ISLAND STATE PARK SECONDARY CHANNEL RESTORATION  
COMPENSATORY MITIGATION FOR THE  
ALBANY-HUDSON ELECTRIC TRAIL  
HUDSON RIVER & SCHODACK CREEK  
NORTH NAVIGATION LIGHT #188  
TOWN OF STUYVESANT, COLUMBIA COUNTY  
& TOWN OF NEW BALTIMORE, GREENE COUNTY

18 SHEETS

ISSUANCE DATE: NOVEMBER, 2018

## CONCEPTUAL PLAN SUBMITTAL

[illegible]

**GPI** GREENMAN-PEDERSEN, INC.  
CONSULTING ENGINEERS

PREPARED AND RECOMMENDED BY:

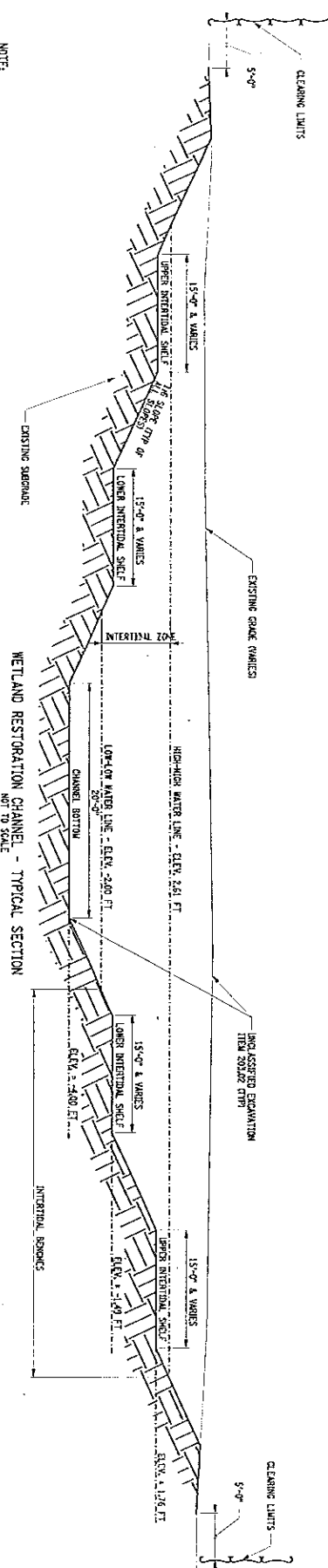
GREENMAN-PEDERSEN, INC.  
CHRISTOPHER CONNELL, P.E.  
N.Y. #E. NO. 000059

DATE

CONTRACT: 2017-05-05-01



- NOTES
1. THE TOTAL DRYING, LOW-LOW AND HIGH-HIGH WATER LINES ARE BASED ON WATER LEVELS INVESTIGATED BY DAWSON CONSULTING ENGINEERS, INC. (DCE) IN 2012. DCE HAS PROVIDED A DETAILED REPORT, "RESULTS OF INVESTIGATION OF WATER LEVELS FOR THE TOTAL HUDSON RIVER NORTH OF WARREN, NEW YORK, INCLUDING, ET AL."
  2. REFER TO DWG 2012-1 AND 2012-2 FOR ADDITIONAL DETAILS PERTAINING TO RESTORATION INCLUDING FOOTINGS, CHANNELS & SECTIONS.



AS BUILT RECORD		ALBANY-HUDSON ELECTRIC TRANSMISSION MITIGATION	
PROJECT NAME		TOWN OF WARREN AND NEW DUTCHES	
COUNTY		COLUMBIA AND ONEIDA	
DATE		11/7/2018	
DRAWN BY		JGL, G.M.D.	
REVISION #		1	
TYPICAL SECTION		TYPICAL SECTION	
ISSUED ON		11/7/2018	
CONTRACT NUMBER		2017-05-001	
SHEET NO.		5	
GPI		GPI	
GREENWICH ENGINEERING, INC.		GREENWICH ENGINEERING, INC.	
CONSULTING ENGINEERS		CONSULTING ENGINEERS	
HYDRAULIC DESIGN		HYDRAULIC DESIGN	
VALLEY GREENWAY		VALLEY GREENWAY	

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER ANY ITEM IN ANY WAY, BY ANY MEANS, BEING THE SEAL OF A LICENSED PROFESSIONAL, IS ALTERED, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

### SEQUENCE OF CONSTRUCTION

1. PRIOR TO ANY EARTH DISTURBANCE, A WRITING SHALL BE CONDUCTED WITH THE OWNER, CONTRACTOR, AND DESIGN/ENGINEER TO FIELD IDENTITY TREES AND VEGETATION TO BE REMOVED AS WELL AS TREES AND VEGETATION REMOVED WITHIN THE LIMITS OF DISTURBANCE.
2. A MANUAL DATE'S PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES OF REMOVING INTO OR OUT OF THE UNDERGROUND UTILITIES.
3. INSTALL TEMPORARY SITE CONSTRUCTION FENCE AT LIMITS OF DISTURBANCE FOR THE WORK AREA.
4. INSTALL TEMPORARY SITE CONSTRUCTION FENCE AT LIMITS OF DISTURBANCE FOR THE WORK AREA.
5. INSTALL ANY TREE PROTECTION FENCING IN CONFORMANCE WITH THE DESIGN AND SEDIMENT CONTROL AND EROSION CONTROL SPECIFICATIONS, TREE PROTECTION BARRIERS AND STAKE AND LOCAL STORMWATER REGULATION AND ORDINANCES.
6. INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, SLOTTED BARRIERS, BERM BARRIERS, AND CONFINEMENT WITH THE DESIGN.
7. SELECTIVELY REMOVE TREES, SHRUBS AND BUSHES WITHIN THE LIMITS OF DISTURBANCE WITH OWNER APPROVAL.
8. DISPOSED OF LOGS AND BRUSH INTO AN RECYCLED STANDING AREA, TREES AND BRUSH TO BE DISPOSED OF LOGS AND BRUSH WITHIN THE WORK ZONE UTILIZED IN ACCESS ROAD, AND STANDING AREA SHRUBS AND BRUSH TO BE DISPOSED WITHIN STANDING AREA FOR REUSE IN PROPOSED ROOT ZONE OR BE DISPOSED AT APPROVED OFF-SITE SWELL AREA. STUMP SHALL BE GRINDER.
9. INSTALL APPROVED SOIL CULTURE PRIOR TO BEGINNING SOIL CHANNEL CUT.
10. INSTALL PROPOSED SOIL CULTURE PRIOR TO BEGINNING SOIL CHANNEL CUT.
11. PERFORM ALL EXCAVATION AND WAS DOING IN CONFORMANCE WITH THE TYPICAL SECTION AND GENERAL NOTES, INCLUDING DRAINAGE AND SOIL CHANNEL CUTS.
12. INSTALL ROOT WASH.
13. ONCE THE SITE IS COMPLETELY STABILIZED, AND ONLY AS DIRECTED BY THE QUALIFIED INSPECTOR, THE CONTRACTOR SHALL REMOVE ALL EROSION AND SEDIMENT CONTROLS.

UPLAND SEED MIX					TOTAL ACRAGE
LATIN NAME	COMMON NAME	SPECIFICATION	CERTIFIED SEED PST/ACRE (LBS)		
<i>Schizanthium scoparium</i>	Litic Bluestem	Long Island-NY Ecotype	11.4		
<i>Elymus virginicus</i>	Virginia Wild Rye	PA Ecotype	6		
<i>Andropogon gerardii</i>	Big Bluestem	Long Island-NY Ecotype	3.6		
<i>Sorghastrum nutans</i>	Indian Grass	Long Island-NY Ecotype	5.1		TBD
<i>Agrostis perennans</i>	Autumn Bentgrass	APA-NY Ecotype	0.6		
<i>Panicum virgatum</i>	Switchgrass	Long Island-NY Ecotype	2.3		
Total			30		
*Pure Live Seed (PLS) = (% germination x % purity) / 100					

Apply Regreen™ by Rainier Seeds, Inc. as companion crop at rate of 20 lbs per acre. Alternatively, Grain Oats (*Avena sativa*) or Grain Rye (*Sitona cereale*) may be used for time period 1 Jan to 31 July, Dec respectively. Cover crop should be applied at a rate of 30 lbs/acre.

Dec respectively. Cover crop should be applied at a rate of 30 lbs/acre.

Dec respectively. Cover crop should be applied at a rate of 30 lbs./acre.

UPPER INTERSTITIAL SEED MIX				
LATIN NAME	COMMON NAME	CERTIFIED SEED PLS*/ACRE	TOTAL ACREAGE	POUNDS (LBS) REQUIRED
<i>Schoenoplectus tabernaemontani</i> (formerly <i>Scirpus validus</i> )	Soft-stem Bulrush	3.75	79D	78D
<i>Schoenoplectus pungens</i> (formerly <i>Scirpus pungens</i> )	Three-square Bulrush	1.25		78D
Total		5		78D

\*Pure Live Seed (PLS) = (% germination x % purity) / 100

$$\text{Pure Live Seed (PLS)} = (\% \text{ germination} \times \% \text{ purity}) / 100$$

	LOWER INTERTRIDIAL PLUGS		
LATIN NAME	COMMON NAME	SPECIFICATION	NUMBER
<i>Nuphar luteo</i>	Spartan dock	Tubers	300
<i>Potamogeton zosterifolia</i>	Arrow Arum	2 <sup>nd</sup> plug	300
<i>Pontedericia cordata</i>	Pickeringweed	2 <sup>nd</sup> plug	300
<i>Sagittaria latifolia</i>	Bullhead Arrowroot	2 <sup>nd</sup> plug	300
<i>Acorus americanus</i>	Sweetflag	2 <sup>nd</sup> plug	300
<i>Laelia arizoides</i>	Rice Cutgrass	2 <sup>nd</sup> plug	300
<i>Scheuchzeria palustris</i>	Soft-stem Bulrush	2 <sup>nd</sup> plug	300
<i>tobarnemourensis</i> (formerly <i>Scirpus validus</i> )	Three-square Bulrush	2 <sup>nd</sup> plug	300
<i>Scheuchzeria palustris</i> (formerly <i>Scirpus pungens</i> )			
<i>Scirpus pungens</i>			
Total			2400

NOTE:  
1. SEE DETAIL 3, DRAWING ESC-4 FOR PLUS DETAIL AND ARRANGMENT

1. SEED/PLANT SPECIES SHALL BE NATIVE TO THE HUDSON RIVER VALLEY AND LOCAL GENOTYPES SHALL BE USED WHENEVER POSSIBLE, TO THE EXTENT THEY ARE COMMERCIALY AVAILABLE WHILE ALSO CONSIDERING TIMING AND COST. ALL SEED/PLANT SPECIES SUBSTITUTIONS MUST BE APPROVED BY NYSDOT.
2. 50% LONGER INTERVAL AND UPPER INTERVAL SEED WINGS THROUGHOUT ENTIRE INTERVAL BENCH.

## REVIEW SUBMITTAL

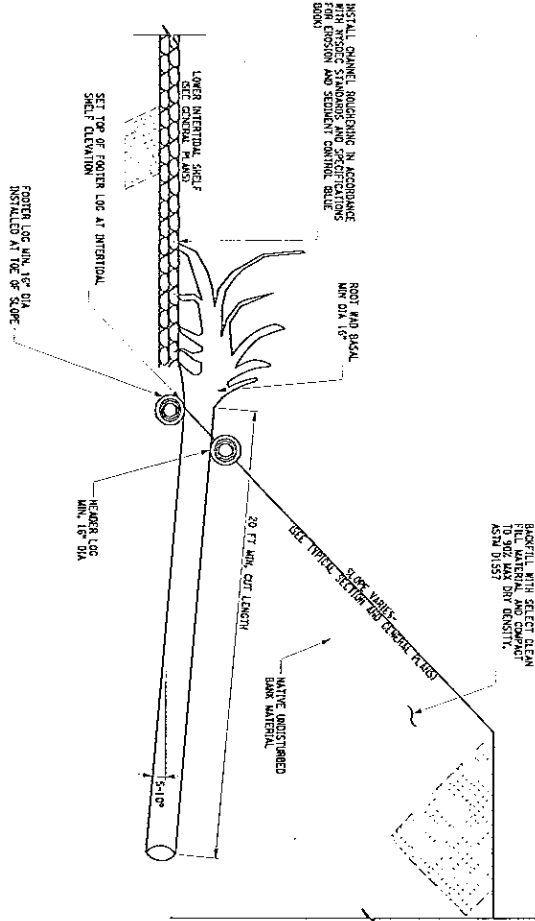
It is a violation of LAR 60A to require, unless they are acting under the direction of a licensed professional engineer, architect, landscape architect or land surveyor, to alter a building in any way or to extend the useful life of a building or professional, a licensed professional, a licensed architect, a licensed landscape architect or land surveyor, shall stamp the document and include the notation "ALTERED BY FOLLOWED BY THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

[illegible]



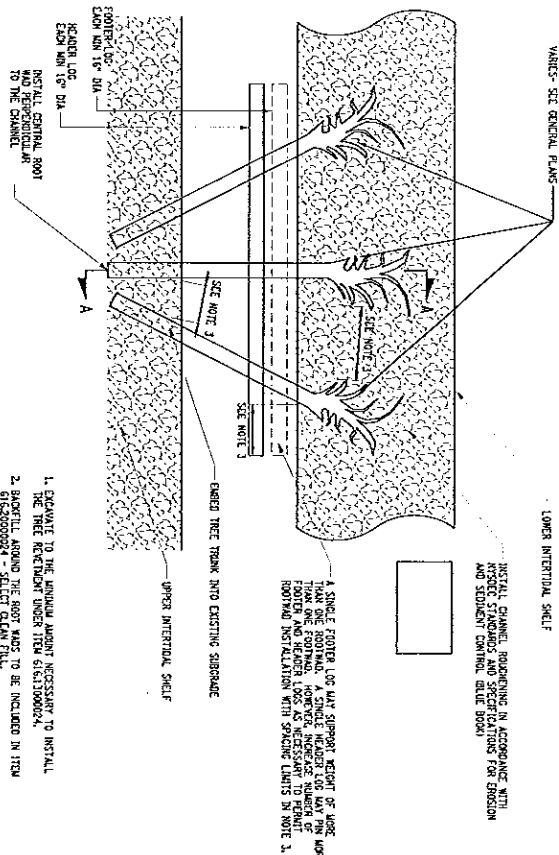
# TREE REWEAVING INCLUDING ROOTWAD DETAIL NOT TO SCALE

SECTION A-A



# TREE REWEAVING INCLUDING ROOTWAD DETAIL NOT TO SCALE

BLANK VIEW



## REVIEW SUBMITTAL

AS BUILT REVISIONS		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
ALBANY-HUDSON ELECTRIC TRANSMISSION MITIGATION		MISCELLANEOUS DETAILS	
TOWN/STREET/AND NEW BAY TOWNE	UTL & K.D.	ISSUED ON 11/7/2003	
COUNTY/COLUMBIA AND ORANGE	REGION 8	CONTRACT NUMBER BR/BR/NO. 1050-1	
PROJECT NO. 1050-1		SHEET NO. 5	

P. FENEALLY

C. CORNWELL

P. JEN

C. CORNWELL

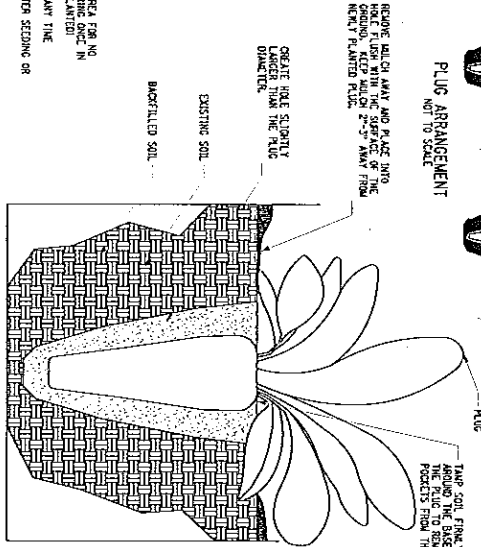
T. VICE

P. JEN

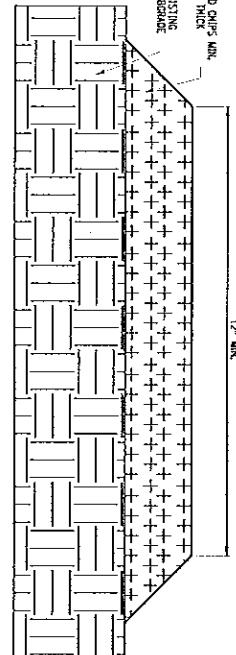
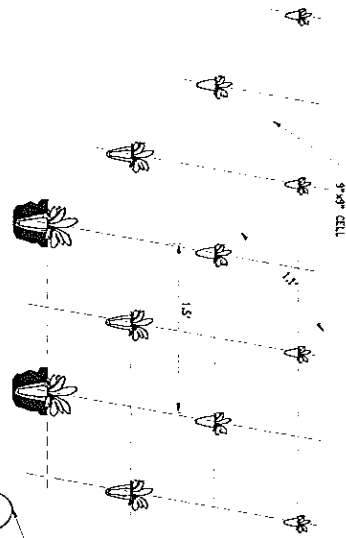
C. CORNWELL

- NOTES:
1. STONE ON SITE IN A SHADY AREA FOR NO LONGER THAN 24 HOURS. PLANTING DATE IN SPRING AND SUMMER STILL PLANTED.
  2. DO NOT APPLY FERTILIZER AT ANY TIME.
  3. PLUGS SHOULD BE PLANTED AFTER SEEDING OR MATCH APPLICATION.
  4. WATER PLUGS IMMEDIATELY AFTER PLANTING. SOIL SHOULD BE SATURATED TO A MINIMUM OF 3".
  5. KEEP PLUGS WELL WATERED FOR THE FIRST TWO

PLUG DETAIL  
NOT TO SCALE



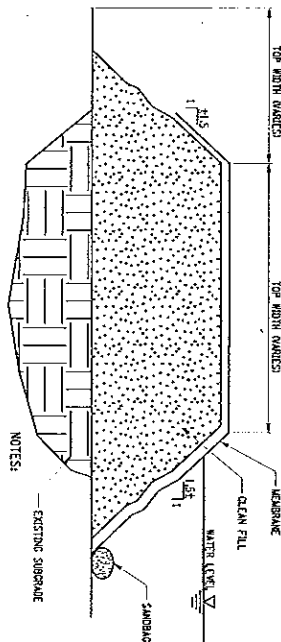
PLUG ARRANGEMENT  
NOT TO SCALE



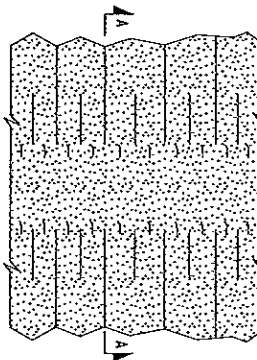
HAUL ROAD SECTION  
NOT TO SCALE

- CONSTRUCTION SPECIFICATIONS:
1. USE WOOD CHIPS PRODUCED FROM REMOVED TREES TO CREATE HAUL ROAD SURFACE.
  2. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE REQUIRED. EVENT 14 LOG SKID DRAG AND AFTER EACH RAINFALL EVENT, WOOD CHIPS SHOULD BE REAPPLIED AS NECESSARY.

EARTH FILL OFFERDAM  
NOT TO SCALE



EARTH FILL OFFERDAM  
NOT TO SCALE



## REVIEW SUBMITTAL

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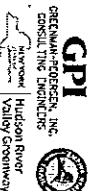
ALABAMA-HUDSON ELECTRIC TRANSMISSION MITIGATION  
TOWN OF STUBBS AND NEW VULCAN  
COUNTY: COCAHOMA AND DEKALB

UTL & M.D.

MISCELLANEOUS DETAILS

ISSUED ON  
11/7/2018

CONTRACT NUMBER  
2017-05-05-01  
SHEET NO. XX



P. FENNELLY

C. CORNWELL

R. JOEN

C. CORNWELL

T. VICE

R. JOEN

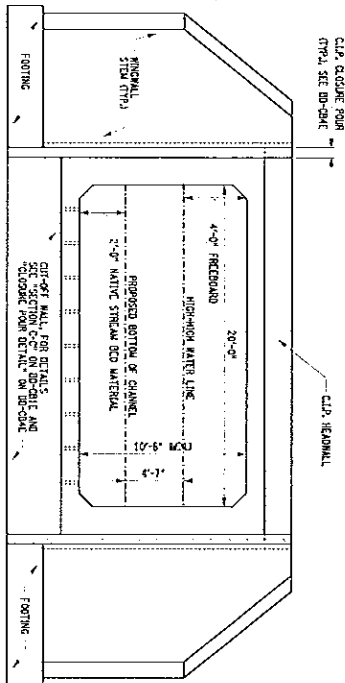
C. CORNWELL

WINGWALL DATA - STA 5+11				
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "X"
WINGWALL 1				
WINGWALL 2				
WINGWALL 3				
WINGWALL 4				

- NOTES:
1. TALL WALLS MAY USE A ONE-FOOT BAR LAPPED TO A VERTICAL BAR.
  2. BAR SIZE AND SPACING TO BE DETERMINED BY CONTRACTOR.
  3. DETAILING OF JOINTS AND FOOTING DIMENSIONS TO BE DETERMINED BY CONTRACTOR.
  4. BASED ON HORIZONTAL AND VERTICAL ALIGNMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CORRECT LENGTH REQUIRED ON THE PLAN. THE JOINT DETAIL BETWEEN WINGWALL UNITS SHALL BE IN ACCORDANCE WITH DETAILS PRESENTED IN BD-031C.

GEOTECHNICAL WINGWALL DESIGN DATA				
FRICTION ANGLE OF SOIL	TOTAL SOIL WEIGHT	SOIL WEIGHT PER FOOT	SOIL WEIGHT PER FOOT	SOIL WEIGHT PER FOOT
10°	1000	1000	1000	1000
15°	1500	1500	1500	1500
20°	2000	2000	2000	2000
25°	2500	2500	2500	2500
30°	3000	3000	3000	3000
35°	3500	3500	3500	3500
40°	4000	4000	4000	4000
45°	4500	4500	4500	4500
50°	5000	5000	5000	5000
55°	5500	5500	5500	5500
60°	6000	6000	6000	6000
65°	6500	6500	6500	6500
70°	7000	7000	7000	7000
75°	7500	7500	7500	7500
80°	8000	8000	8000	8000
85°	8500	8500	8500	8500
90°	9000	9000	9000	9000

1. FOR THE SLIDING AND ECCENTRICITY ANALYSES, ASSUME A GROUND WATER ELEVATION OF 100 FEET.
2. FOR THE BEARING ANALYSIS, ASSUME A GROUNDWATER ELEVATION OF 100 FEET.
3. USE SUBMERGED UNIT WEIGHTS BELOW THE GROUNDWATER ELEVATION PROVIDED.
4. ASSUME A SUBMERGED LOAD OF 1000 POUNDS PER SQUARE FOOT.



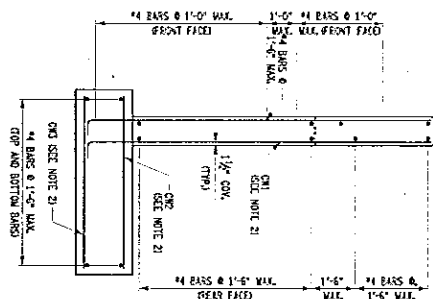
TYPICAL CULVERT ELEVATION

## REVIEW SUBMITTAL

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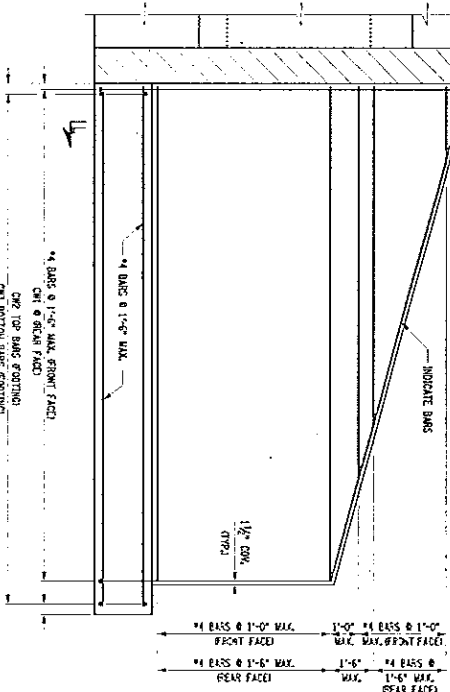
ALBANY-HUDSON ELECTRIC TRANSMISSION MITIGATION		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
TOWN: STONEHAM AND NEW BALTIMORE	COUNTY: COLUMBIA AND ORANGE	DATE: 10/10/18	REGION: 8
DRAINAGE BOX CULVERT DETAILS ELEVATION A & SECTION		ISSUED ON: 10/17/2018	CONTINUE NUMBER: 10/17/2018
GPI		CONSULTING ENGINEERS	CONSULTING ENGINEERS
GREENWICH, HUDSON RIVER VALLEY		DRAINAGE BOX CULVERT DETAILS ELEVATION A & SECTION	DRAINAGE BOX CULVERT DETAILS ELEVATION A & SECTION
SHEET NO. 11		SHEET NO. 11	

## SECTION L-L WINGWALL UNIT REINFORCEMENT

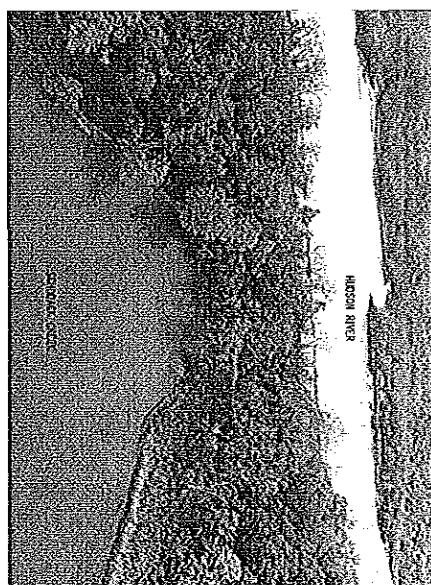
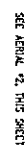


TYPICAL WINGWALL UNIT ELEVATION

WINGWALL UNIT REINFORCEMENT ELEVATION







UNIVERSITY OF CAMBRIDGE



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## AS BUILT REVISIONS

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ALBANY-MODSON ELECTRIC TRAIL COMPENSATORY MITIGATION
TOWNSHIP: CANTON AND NEW BALTIMORE
COUNTY: COLUMBIA AND GREENE



UTIL. Q. V. 0
REGION: 1

## GENERAL PLAN

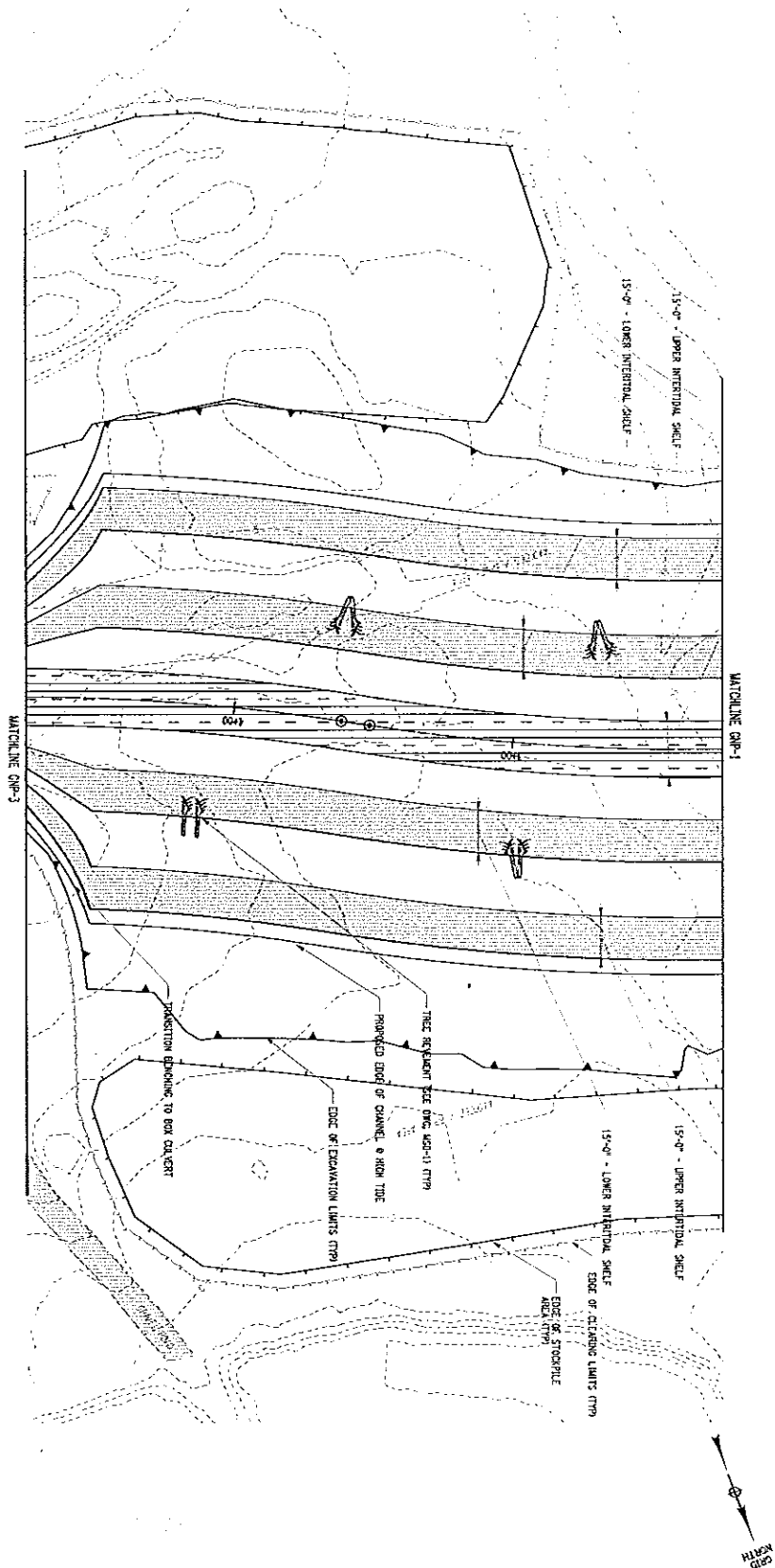
11/7/2018

2817-05-05-0

SHEET NO. 13

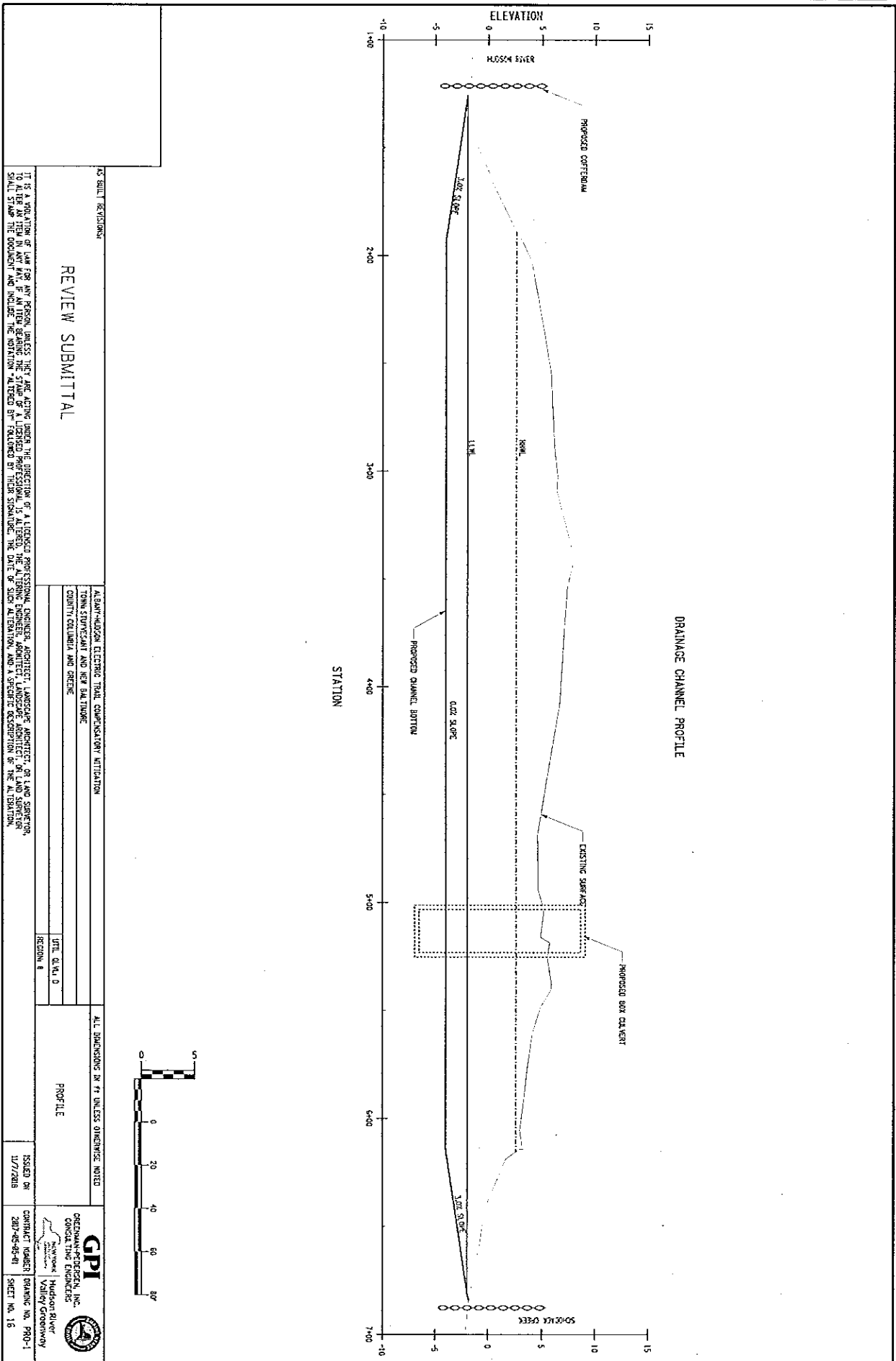
 GREENMAN-PEDERSEN, INC.  
CONSULTING ENGINEERS  
 NEW YORK  
Hudson River  
Valley Greenway

AS BUILT NOTATION		ALBANY-HUDSON ELECTRIC TRAIL COMPENSATION MITIGATION	
TOWN SUPERVISOR AND NEW BULKHEAD		GENERAL PLAN	
COUNTY COLUMBIA AND GREENE		ISSUED ON 11/7/2018	
UTL. DIST. D		CONTRACT NUMBER 2017-05-05-01	
REGION 1		SHEET NO. 14	
<p>IT IS THE POLICY OF THE STATE OF NEW YORK THAT ANY PERSON, FIRM OR CORPORATION, WHOSE DESIGN OR PLAN IS APPROVED BY A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALBANY-HUDSON ELECTRIC TRAIL COMPENSATION MITIGATION" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH APPROVAL, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>		<p><b>GPI</b>                  GEORGE P. ILLI, INC.                  CONSULTING ENGINEERS                  HUDSON RIVER                  VALLEY GREENWAY</p>	



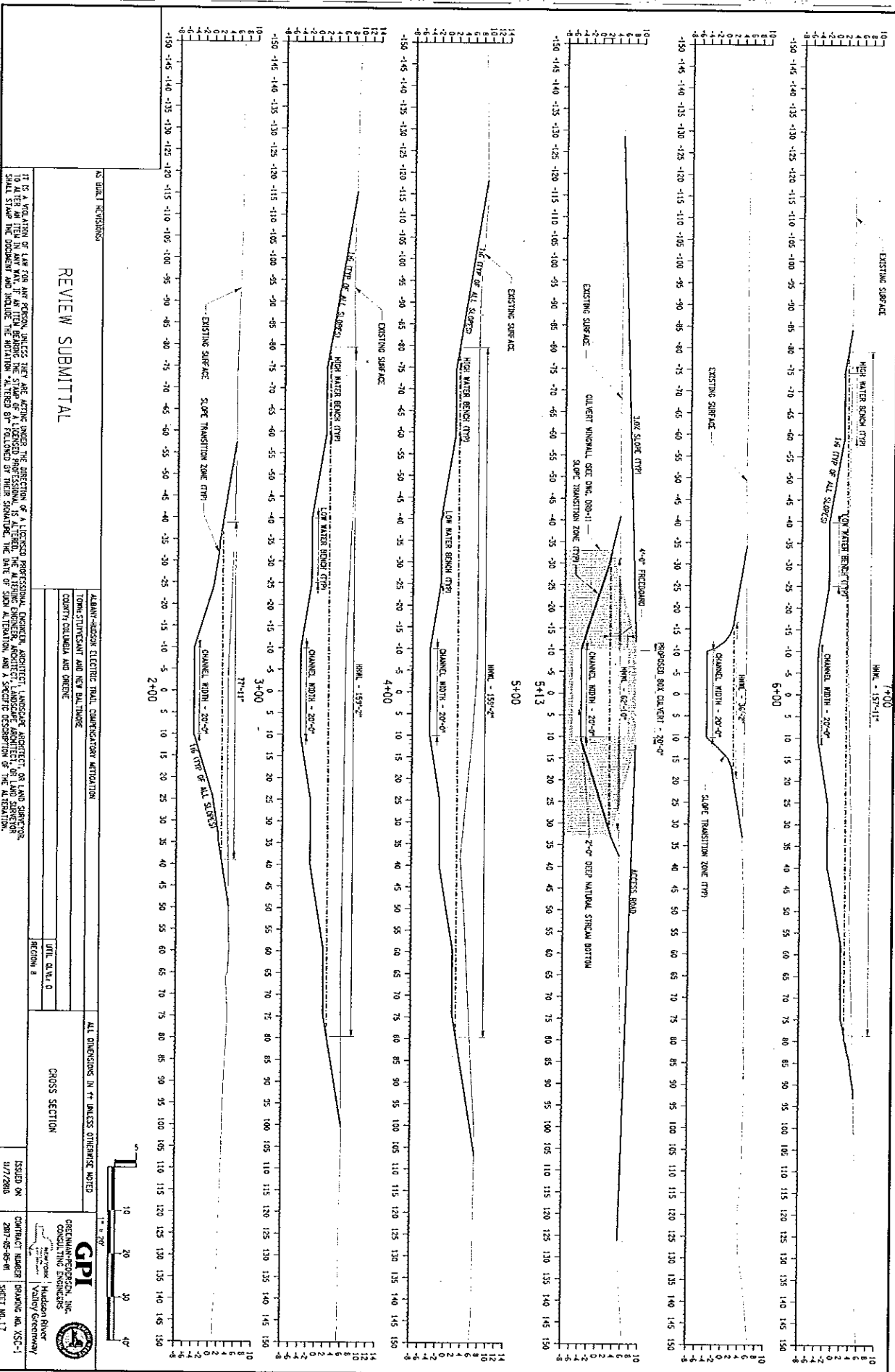


~~NAN-2017-013720-USH, Greenway Conservancy for the Hudson River Valley, Inc., Page 91 of 93~~



# REVIEW SUBMITTAL

AS BUILT REVISIONS		ALBANY-HUDSON ELECTRIC TRAIL COMPENSATORY MITIGATION		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	
TOWN SUPERVISOR AND NEW BUILDING		COUNTY COLUMBIA AND GREENE		PROFILE	
UTL 0.0		REGION 1		ISSUED BY 11/7/2018	
CONTRACT NUMBER 280-25-25-01		Hudson River Valley Greenway		SHEET NO. 16	



REVIEW SUBMITTAL

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ALBANY-ROSELAND ELECTRIC RAIL CORP. RAILROAD  
TOWN OF STONINGTON AND NEW BALTIMORE  
COUNTY OF CALDWELL AND ONEIDA

DATE: 11/17/2013  
SHEET: 17

CROSS SECTION

ISSUED ON: 11/17/2013  
CONTRACT NUMBER: 2017-05-05-01  
SHEET NO. 17

GPI  
GREENWICH ENGINEERING, INC.  
CONSULTING ENGINEERS  
Hudson River Valley Conservancy