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November 29 , 2023

Ms. Melanie Bachman, Esq.  
Executive Director  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

**Re: Petition No. 1593** – The Connecticut Light and Power Company d/b/a Eversource Energy petition for the proposed Montville Substation to North of Kitemaug Road Rebuild Project consisting of the replacement and reconductoring of electric transmission line structures along approximately 1.1 miles of its existing electric transmission line right-of-way shared by its existing 115-kilovolt (kV) 1090 and 1000 Lines between Montville Substation and approximately 1200 feet north of Kitemaug Road in Montville, Connecticut, and related electric transmission line and substation improvements. **Responses to Council Interrogatories**

Dear Attorney Bachman:

On November 14, 2023, the Siting Council requested responses to 18 interrogatories (“IRs”) regarding the above-referenced project, with submittal prior to December 5, 2023. Copies of the responses are enclosed along with three attachments to support the responses.

Eversource will be providing one original and fifteen hard copies of this submittal for the Council’s records.

Should you have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Deborah Denfeld".

Deborah Denfeld

Team Lead – Transmission Siting

[deborah.denfeld@eversource.com](mailto:deborah.denfeld@eversource.com)

Attachments:

- A Wetland and Watercourse Protection Plan (IR #14)
- B NDDDB Determination Letter, dated July 27, 2022 (IR #13, IR #15)
- C State Historic Preservation Office Review Letter, dated September 18, 2023 (IR #16)

**Responses to Council Interrogatories**

**PE 1593**

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 1**

Referencing Petition pp. 29-30, were any comments received from the Town of Montville or abutting property owners since the filing of the Petition? If so, what were their concerns, and how were these concerns addressed?

**Response:**

There have been no comments or concerns received from the Town of Montville municipal officials.

A Lathrop Road property owner requested that Eversource install temporary fencing during construction to prohibit his two large dogs from entering the work area. To address this concern, Eversource plans to install a temporary chain link fence with sandbags, which is the same type of fencing used for previous Project work on this property. The property owner also requested the removal of eight structure foundations on his property, which had supported structures that were replaced by the existing lattice structures. The lattice structures will now be replaced as part of Project work. To address this concern, Eversource will remove these older foundations at the same time the foundations for the lattice tower structures are removed.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 2**

Referencing Petition pp. 2 and 3, what public utility uses/rights are identified under the easements along the existing ROW?

**Response:**

In general, the easements along the existing ROW grant Eversource the right to erect, construct, repair, maintain, replace, relocate, inspect, operate and remove upon, over, under and across said ROW, poles, towers, crossarms, guys, foundations, anchors, braces, ducts, manholes and other structures, wires, cables and other conductors, and other fixtures and appurtenances useful for the conduction of electricity and/or for providing and maintaining electric and/or communication service. The right to enter upon and travel and transport materials over and upon the ROW.

The right to trim and keep trimmed, cut, clear and remove by mechanical means or otherwise, trees or limbs and branches thereof, underbrush and other growth other than crops, any part of which are within the limits of the ROW or adjoining land of Grantor and which may interfere with the exercise of the rights and or easements granted.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 3**

Is the proposed project identified in any ISO-New England, Inc. (ISO-NE) needs and solutions analyses? Is the proposed project on the ISO-NE Regional System Plan (RSP), Project List and/or Asset Condition List? If yes, identify.

**Response:**

The Montville Substation to North of Kitemaug Road Rebuild Project was not identified by an ISO-New England Inc. (ISO-NE) needs and solutions analysis. The Project is associated with the Asset Condition List project number 376.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 4**

Are any generation facilities listed on the ISO-NE interconnection queue associated with the proposed project? If so, please identify the generation facilities and the queue position.

**Response:**

No, there are no generation facilities listed on the ISO-NE interconnection queue associated with the proposed Project.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 5**

What is the total estimated cost of the project? Of this total, what costs would be regionalized, and what costs would be localized? Estimate the percentages of the total cost that would be borne by Eversource ratepayers, Connecticut ratepayers, and the remainder of New England (excluding Connecticut) ratepayers, as applicable.

**Response:**

The total estimated cost of the Project is approximately \$10.29 million. Eversource anticipates that the entire cost will be regionalized pending the final determination of ISO-New England's Schedule 12C Review.

The Company anticipates the following overall allocations for the total cost:

- Customers of Eversource: 19.2%
- Other Connecticut customers: 6.0%
- Other New England customers: 74.8%

The estimated allocations are based on 2022 actual loads.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 6**

How does the project relate to other proposed, planned or constructed Connecticut reliability and asset condition projects?

**Response:**

This Project is included in an initiative that aims to increase system reliability by expanding fiber-based communications via the installation of fiber optic lines in the Eversource system. Several of the structures to be replaced as part of this Project are also showing evidence of asset condition issues.



**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 7**

Please describe how the proposed project is consistent with the recommendations of the Federal Energy Regulatory Commission (FERC) and the North American Electric Reliability Corporation (NERC) Report on Transmission Facility Outages During the Northeast Snowstorm of October 29-30, 2011 - Causes and Recommendations.

**Response:**

The planned vegetation management work for the proposed Project was originally scheduled for early 2023 as part of the Transmission Right-of-Way ("ROW") Reliability Program ("TRRP") in the same corridor as the Project. TRRP is an Eversource maintenance program to increase the maintained portion of ROW within the easement area by implementing edge to edge vegetation maintenance, which is consistent with the recommendations in the referenced FERC and NERC Report. To better coordinate the various Projects and vegetation management regulatory requirements, the TRRP vegetation work was postponed until 2024.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 8**

Identify all other permits required to perform the proposed work.

**Response:**

The following permits are associated with this Project:

- U.S. Army Corps of Engineers – Self-Verification Notification for the reconductoring and installation of OPGW over Horton Cove
- CT DEEP Natural Diversity Database consultation

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 9**

Referencing Petition pp. 7-8, the proposed Project scope of work is identified by eight bullet points. On pages 5 and 6 of the Petition, Eversource notes that the Project consists of three segments: Segments 1, 2 and 3. Break down the eight Project scope bullet points by Segments 1, 2, and 3.

**Response:**

See Table below:

No.	Proposed Project Scope of Work:	Segment 1: Structures north of Montville Substation to North of Depot Road, approximately 1800 feet (0.34 mile) <sup>(1)</sup> :	Segment 2: North of Depot Road to North Side of Horton Cove, approximately 2,750 feet (0.52 mile) <sup>(1)</sup> :	Segment 3: North Side of Horton Cove to North of Kitemaug Road, approximately 1,200 feet (0.23 mile):
1	Replace five double-circuit steel lattice tower structures with five double-circuit galvanized steel monopoles;	Three Structures; 7603, 7604, 7605	Two Structures; 7607, 7608	NA
2	Replace two double-circuit steel lattice tower structures with four single-circuit galvanized steel monopoles;	Structure 7602	Structure 7606	NA
3	Replace one double-circuit wood H-frame structure, with two single-circuit galvanized steel monopoles;	NA	NA	Structure 7609
4	Replace one double-circuit wood H-frame structure, with a double-circuit weathering-steel monopole structure (7610);	NA	NA	Structure 7610
5	Replace one single-circuit wood H-frame angle structure that supports the 1000 Line, with a single-circuit weathering steel 3-pole dead-end structure (7611B);	NA	NA	Structure 7611B
6	Replace approximately 1.0 mile of existing conductor with 1590-kcmil 54/19 ACS from Montville Substation to Structures 7609/7609-1;	Applies across full distance in Segment 1	Applies across full distance in Segment 2	Applies across a portion of Segment 3; from Structure 7608 to Structures 7609/7609-1 (approximately 600 feet)
7	Transfer 0.1 miles of existing 556 ACSR conductor on the 1090 Line and 1000 Line; and,	NA	NA	Applies across a portion of Segment 3; for the <b>1090 Line</b> to facilitate Structure 7610 replacement, and for the <b>1000 Line</b> to facilitate Structure 7611B replacement.
8	Replace approximately 1.1 miles of existing shield wire with OPGW from Montville Substation to Structure 7611A on the 1090 Line and to Structure 7611B on the 1000 Line.	Applies across full distance in Segment 1	Applies across full distance in Segment 2	Applies across full distance in Segment 3: for the <b>1090 Line</b> to Structure 7611A, and for the <b>1000 Line</b> to Structure 7611B
Footnote (1): Corrections to lengths of Segment 1 and Segment 2 are as indicated in the top row of the Table.				

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 10**

Referencing Petition p. 7, four existing steel pole structures were installed in 1972 and would not be replaced. Identify the structure numbers and indicate why replacement is not necessary for these structures.

**Response:**

The four structures (structure numbers 6302A, 6303A, 6304A and 6305A) are components of the 1080 Line. These structures are tubular steel monopoles (rather than lattice) and do not meet the criteria for asset condition replacement at this time.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 11**

Referencing footnote 1 on Petition p. 2 and footnote 14 on Petition p. 8, a 0.1-mile segment of conductor would be transferred rather than replaced. What is the estimated remaining useful life for this conductor segment?

**Response:**

The estimated remaining useful life for this conductor segment is approximately 10 to 20 years and the lines shows no sign of significant aging based on recent inspections.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 12**

Referencing Petition, Attachment C, Drawing XS-7, explain why the additional tree clearing is necessary adjacent to the 1000 Line.

**Response:**

While some of the vegetation management work is necessary to comply with electrical clearances, other work was part of the early 2023 scheduled vegetation maintenance work. In an effort to limit disturbance to the property owner, the work is being combined and done all at once during the Project.

Additional tree clearing is necessary adjacent to the 1000 line to comply with maintaining required electrical clearances within the ROW and Company specifications for clearance from the outside conductor and a mature vegetation height of no taller than 15 feet in the wire zone, or 30 feet in the border zone.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 13**

Referencing Petition p. 23, an environmental inspector would inspect the temporary erosion and sediment control measures. In addition to Eversource's Best Management Practices, what other specific environmental mitigation measures and/or monitoring would be conducted for construction within environmentally sensitive areas? Identify any additional inspection duties.

**Response:**

In addition to Eversource's Best Management Practices, Eversource would comply with recommendations detailed in the Connecticut Department of Energy and Environmental Protection ("CTDEEP") Natural Diversity Database ("NDDB") Determination letter that was received for this Project (NDDB Determination Number: 202207378), dated July 27, 2022 (attached), by monitoring for the one identified species identified in the proximate Project area.

Following construction, where exposed soils require stabilization, Eversource will use a native warm season grass mix in addition to annual ryegrass to both promote rapid vegetative establishment and long-term cover with native warm season grasses, which are common in this ROW. The Project's soil stabilization areas will be inspected as part of the Project's environmental compliance monitoring activities.



**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 14**

Has Eversource developed a Protection Plan for wetlands, watercourses and vernal pools, including applicable pre-construction environmental resource field delineations and environmental inspections and duties, in its construction plans for the project? If yes, submit the plan. If no, when would such a plan be developed?

**Response:**

The Project will not have any direct or temporary effects to wetlands, watercourses, or vernal pools. The Project area has no vernal pools, nor does the Project require a Storm Water Pollution Control Plan.

Project work will comply with Eversource's best management practices ("BMPs"), which focuses on the protection of wetlands and watercourses and Eversource's 'Wetlands and Watercourse Protection Plan' (attached). Eversource will conduct weekly inspections to ensure compliance with the BMPs and the Wetlands and Watercourse Protection Plan.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 15**

Referencing Petition p. 15, submit the DEEP Natural Diversity Data Base (NDDB) Determination letter received in July 2022. How would any recommendations be implemented prior to or during construction?

**Response:**

The NDDB Determination letter received in July of 2022 (attached) identified one species that has the potential to exist proximate to the Project Area. Eversource would monitor work areas near this potential resource during the Project weekly inspections and if required, implement species specific protection measures as directed in the July 2022 NDDB Determination letter. Therefore, effects to this resource are not anticipated.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 16**

Referencing Petition pp. 12, submit a copy of any correspondence from SHPO and/or THPOs.

**Response:**

SHPO responded to correspondence from Heritage Consultants (Eversource's Historical and Cultural Sub-Contractor) on September 18, 2023, stating that "no historic properties will be affected" by Project activities near or proximate to moderate/highly sensitive cultural resources (attached). Heritage sent correspondence to the THPOs of the Mohegan Tribe, the Mashantucket Pequot Tribal Nation, and the Wampanoag Tribe of Gay Head on September 14, 2023. At this time, no responses from THPOs have been received by Heritage or Eversource.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 17**

How are invasive species within work areas identified prior to the commencement of construction?

**Response:**

Invasive species are identified by Project environmental personnel during preconstruction survey work and constructability walkdowns.

**Date Filed:** November 29, 2023

**Request from:** Connecticut Siting Council

**Question: 18**

Could Eversource use net-less or other type of E&S controls to prevent wildlife entanglement?

**Response:**

Eversource prohibits non-biodegradable plastic netting in erosion control products per the BMP Manual, specifically to avoid wildlife entanglement and Eversource can use net-less E&S controls for this project.

**Attachment A**

**Wetland and Watercourse Protection Plan**

**WETLAND AND WATERCOURSE PROTECTION PLAN**

**ALL PROJECT WORK SHALL COMPLY WITH RELEVANT PORTIONS OF 2022 EVERSOURCE'S BEST MANAGEMENT PRACTICES (BMP) MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS AND PROJECT-SPECIFIC STORMWATER POLLUTION CONTROL PLAN (SWPCP) AND PETITION MAPPING. WETLAND AND WATERCOURSE PROTECTION BMPs HAVE BEEN INCORPORATED INTO THE PROJECT MAPPING. ADDITIONAL BMPs MAY BE IMPLEMENTED DURING CONSTRUCTION BASED ON SITE SPECIFIC CONDITIONS, AND CONSTRUCTION METHODOLOGY AND TIMING.**

**VEGETATION MANAGEMENT**

1. CONSIDER SOIL AND WEATHER CONDITIONS WHEN SCHEDULING VEGETATION REMOVAL ACTIVITIES.
2. MAXIMIZE THE USE OF UPLANDS FOR CLEARING/MOWING ACCESS ROUTES. WHERE ACCESS OVER WETLANDS OR WATERCOURSES IS REQUIRED, TEMPORARY MATTING MUST BE USED.
3. TEMPORARY WATERCOURSE CROSSINGS SHOULD BE INSTALLED PERPENDICULAR TO THE DIRECTION OF FLOW.
4. USE APPROPRIATELY SIZED EQUIPMENT FOR SITE CONDITIONS TO MINIMIZE IMPACTS.
5. USE A VARIETY OF EQUIPMENT, INCLUDING LOW-GROUND PRESSURE EQUIPMENT, AS APPROPRIATE TO MINIMIZE IMPACTS TO THE EXTENT PRACTICABLE.
6. REFUEL EQUIPMENT IN UPLANDS. WHERE REFUELING IS REQUIRED IN WETLANDS IT SHOULD BE DONE ON MATTING WITH PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT. SPILL KITS SHOULD BE EASILY ACCESSIBLE AT ALL WORK AREAS.
7. FELL TREES DIRECTIONALLY (PARALLEL TO AND WITHIN THE ROW) TO MINIMIZE IMPACTS TO RESIDUAL VEGETATION, WHERE PRACTICAL.
8. CUT TREES CLOSE TO THE GROUND, LEAVING ROOT SYSTEMS AND STUMPS TO PROVIDE ADDITIONAL SOIL STABILITY.
9. EXISTING RIPARIAN VEGETATION WITHIN 25' OF WATERCOURSE BANKS WILL BE MAINTAINED, TO THE EXTENT PRACTICABLE AND CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS.
10. STOCKPILE CUT TIMBER AND BRUSH ONLY IN UPLANDS.

**CIVIL CONSTRUCTION**

11. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN WETLANDS OR WATERCOURSES OUTSIDE OF THE WORK LIMITS DEFINED BY SWPCP AND PETITION MAPPING.
12. INSTALL EROSION AND SEDIMENTATION CONTROLS AROUND WORK SITES IN OR NEAR WETLANDS AND WATERCOURSES AS DETAILED IN THE SWPCP TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION.
13. PLASTIC NETTING, WHICH MAY BE FOUND IN A VARIETY OF EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKETS, STRAW WATTLES, AND REINFORCED SILT FENCE) IS NOT ALLOWED.
14. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS THROUGHOUT CONSTRUCTION. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WETLANDS OR WATERCOURSES, OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
15. INSTALL TEMPORARY CONSTRUCTION MATTING FOR ACCESS ROADS ACROSS WETLANDS AND WATERCOURSES OR TO ESTABLISH SAFE AND STABLE CONSTRUCTION WORK PADS WITHIN WETLANDS, WHERE NECESSARY.
16. WHERE TEMPORARY CONSTRUCTION WORK PADS MUST BE CONSTRUCTED OVER WATERCOURSES, THE MATTING SHALL BE PLACED TO MAINTAIN FLOWS AND MINIMIZE AQUATIC HABITAT DISTURBANCE DURING THE CONSTRUCTION PERIOD.
17. MATTING IN WETLANDS OR OVER WATERCOURSES WILL BE PERIODICALLY SWEEPED, WITH COLLECTED SOIL RELOCATED TO UPLANDS, TO MINIMIZE THE POTENTIAL FOR DEPOSITION INTO WETLANDS AND WATERCOURSES AS A RESULT OF RAIN OR VEHICLE / EQUIPMENT MOVEMENTS.
18. PROHIBIT VEHICLES OR EQUIPMENT FROM BEING PARKED OVERNIGHT ON ACCESS ROADS OR WORK PADS IN WETLANDS, EXCEPT FOR EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED, SUCH AS CRANES OR DRILL RIGS. WHERE EQUIPMENT MUST BE STORED ON MATTED WORK PADS IN WETLANDS, SECONDARY CONTAINMENT MUST BE PROVIDED.
19. NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 100' OF ANY WETLAND, EXCEPT EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED, SUCH AS CRANES OR DRILL RIGS. WHERE REFUELING IS REQUIRED WITHIN 100' OF WETLANDS, PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES MUST BE FOLLOWED.
20. REMOVE, FOLLOWING THE COMPLETION OF TRANSMISSION LINE WORK, TEMPORARY FILL MATERIALS FROM WORK SITES IN WETLANDS, INCLUDING ALL GEOTEXTILE FABRIC, AND TIMBER MATS USED FOR WORK PADS AND TEMPORARY ACCESS ROADS.
21. INSPECT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS UNTIL WORK AREAS ARE STABILIZED AS DETERMINED BY EVERSOURCE.

**DRILLING**

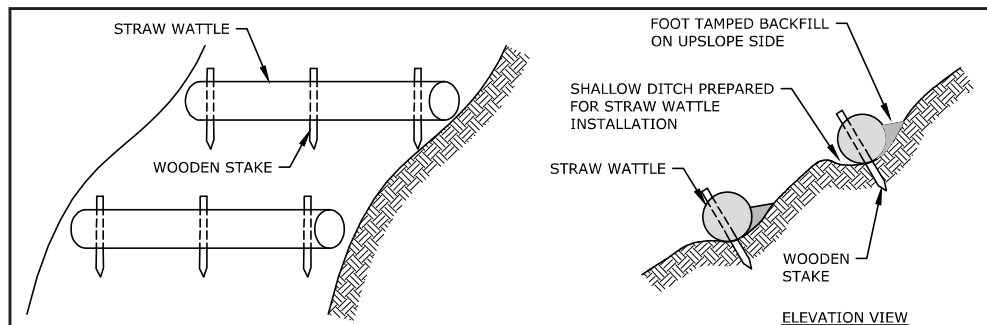
22. ESTABLISH PROPER CONTAINMENT FOR DRILLING SPOILS ON MATTED WORK PADS IN WETLANDS. SPIN-OFF BOXES SHOULD BE UNDERLAIN WITH GEOTECHNICAL FABRIC AND EMPTIED REGULARLY INCLUDING PRIOR TO ANY RAIN EVENTS. DRILLING SPOILS GENERATED IN WETLANDS MUST BE TRANSPORTED TO IN-ROW UPLANDS ON THE SAME PROPERTY OR A PRE-APPROVED OFF-SITE LOCATION.
23. PROHIBIT VEHICLES OR EQUIPMENT FROM BEING PARKED OVERNIGHT ON ACCESS ROADS OR WORK PADS IN WETLANDS, EXCEPT FOR EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED, SUCH AS CRANES OR DRILL RIGS. WHERE EQUIPMENT MUST BE STORED ON MATTED WORK PADS IN WETLANDS, SECONDARY CONTAINMENT MUST BE PROVIDED.
24. NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 100' OF ANY WETLAND, EXCEPT EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED, SUCH AS CRANES OR DRILL RIGS. WHERE REFUELING IS REQUIRED WITHIN 100' OF WETLANDS, PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES MUST BE FOLLOWED.
25. PROHIBIT MIXING, TESTING, STORAGE, OR DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) WITHIN 25' OF WETLANDS.

**WETLAND INVASIVE SPECIES CONTROL**

ALL PROJECT WORK SHALL COMPLY WITH RELEVANT PORTIONS OF 2022 EVERSOURCE'S BEST MANAGEMENT PRACTICES (BMP) MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS AND PROJECT-SPECIFIC STORMWATER POLLUTION CONTROL PLAN (SWPCP). THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO CONTROL THE SPREAD OF INVASIVE SPECIES IN WETLANDS ON EVERSOURCE ROWS.

1. ALL CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS (E.G., TIMBER MATS) MUST BE CLEAN AND FREE OF EXCESS SOIL, DEBRIS, AND VEGETATION BEFORE BEING MOBILIZED TO THE PROJECT ROWS.
2. TIMBER MATS OR EQUIVALENT WILL BE USED IN WETLANDS SO CONSTRUCTION VEHICLES THAT FREQUENTLY TRAVEL ALONG THE ROW CAN AVOID DIRECT WETLAND INTERACTION.
3. TO MINIMIZE THE POTENTIAL FOR SPREADING INVASIVE PLANT SPECIES FROM WETLAND-TO-WETLAND ALONG THE ROW, ANY EQUIPMENT OR MATTING USED IN A WETLAND CONTAINING INVASIVE PLANT SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO ANOTHER WORK SITE. CLEANING WILL INVOLVE REMOVAL OF VISIBLE DIRT, DEBRIS AND VEGETATION BY DROPPING THE MATS OR THROUGH THE USE OF BROOMS, SHOVELS, AND, IF NEEDED, COMPRESSED AIR.
4. FINAL RESTORATION OF THE ROW IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT VERSION OF THE EVERSOURCE BEST MANAGEMENT PRACTICES MANUAL CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS. UTILIZE STRAW BALES, WATTLES, COCONUT ROLLS, WOOD CHIP BAGS OR SILT FENCE IN LIEU OF TRADITIONAL HAY BALES WHICH MAY CONTAIN NOXIOUS OR INVASIVE SEED STOCK OR PLANT MATTER. THIS IS ESPECIALLY IMPORTANT WHEN EROSION CONTROLS ARE INSTALLED ADJACENT TO WETLANDS. EFFORTS WILL BE MADE DURING CONSTRUCTION TO MINIMIZE EQUIPMENT MOBILITY IN AREAS CONTAINING INVASIVE SPECIES SO AS TO AVOID DRAGGING INVASIVE PLANT MATERIAL BACK AND FORTH FROM ESTABLISHED STANDS INTO OTHER WETLANDS.

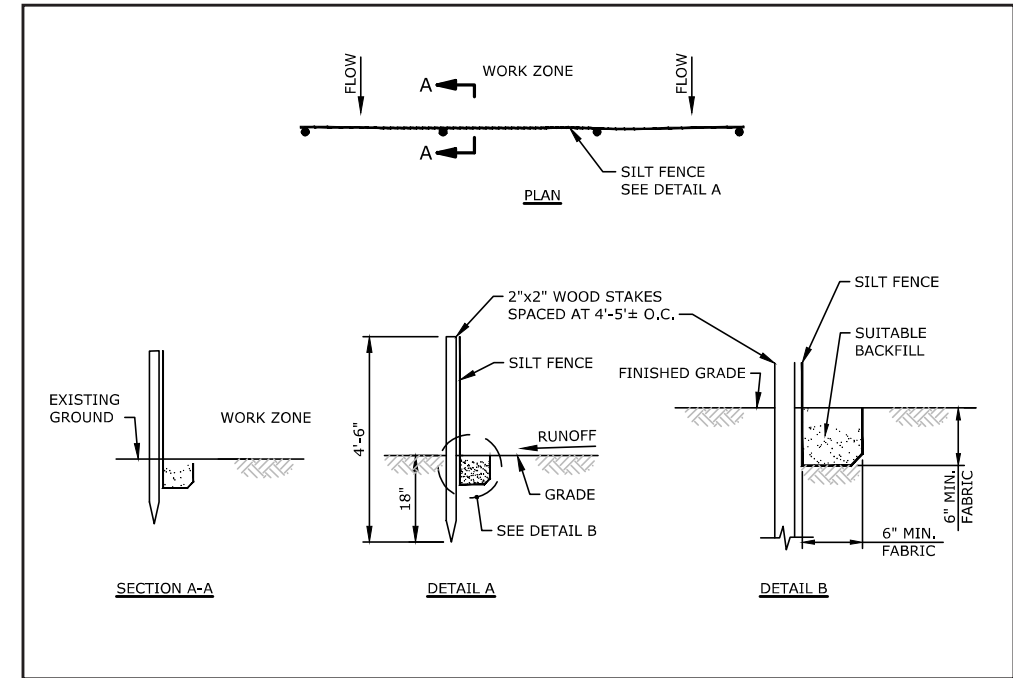
**STRAW WATTLE ON SLOPE**



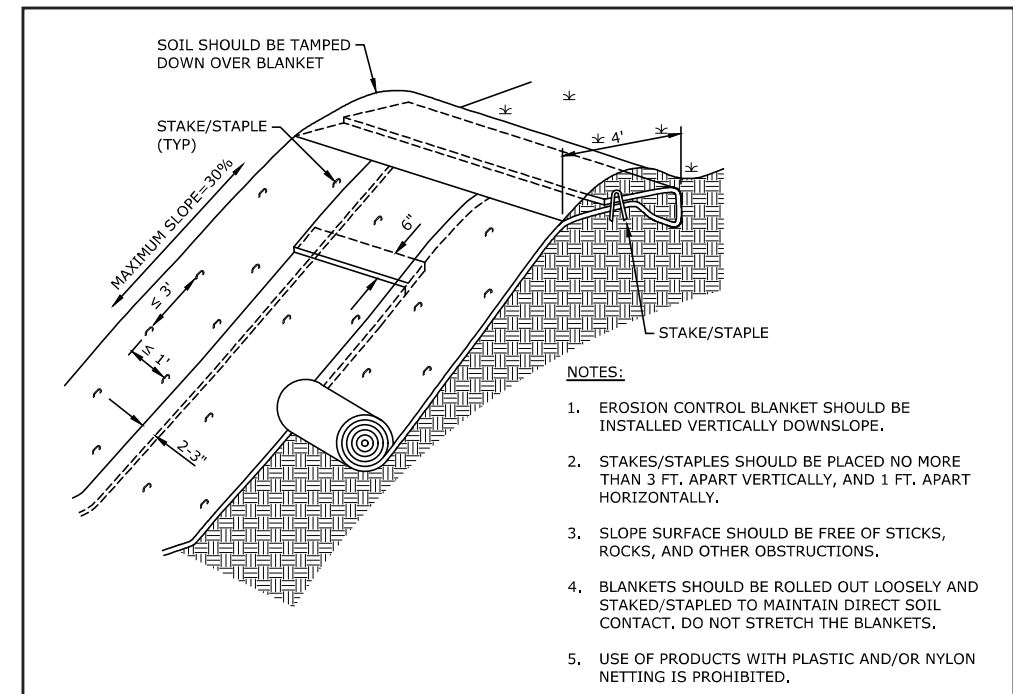
**NOTES:**

1. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.
2. VERTICAL SPACING FOR SLOPE INSTALLATIONS TO BE DETERMINED BY SITE CONDITIONS: SLOPE GRADIENT AND SOIL TYPE. CONFIRM SPACING PER MANUFACTURER'S SPECIFICATIONS. SEE BELOW FOR TYPICAL REQUIREMENTS. COORDINATE SPACING AND LOCATION WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING.
  - 1:1 SLOPES = 10 FEET APART
  - 2:1 SLOPES = 20 FEET APART
  - 3:1 SLOPES = 30 FEET APART
3. MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (E.G. HEAVILY USED ACCESS ROADS WITH ADJACENT WETLANDS). MINIMUM 8" DIAMETER WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

**SILT FENCE**



**EROSION CONTROL BLANKET**

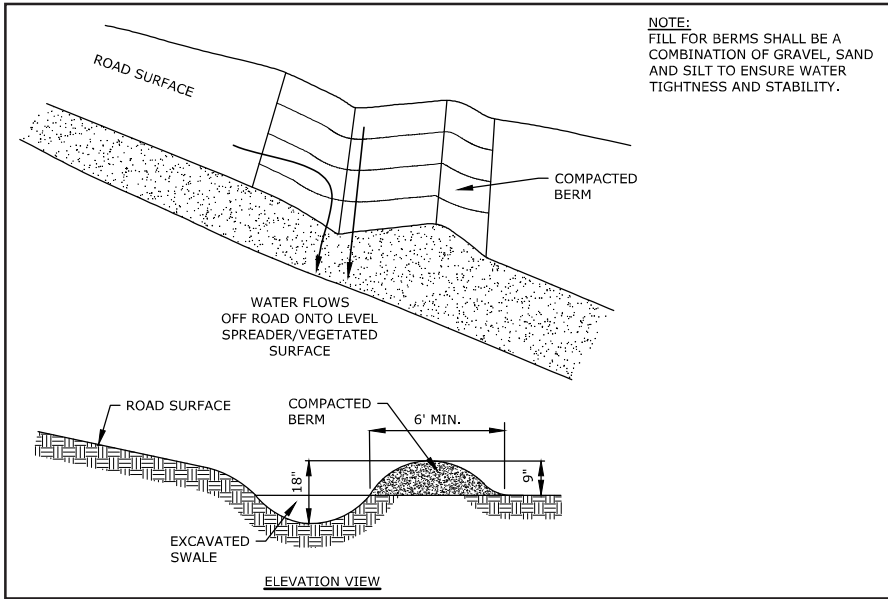


**NOTES:**

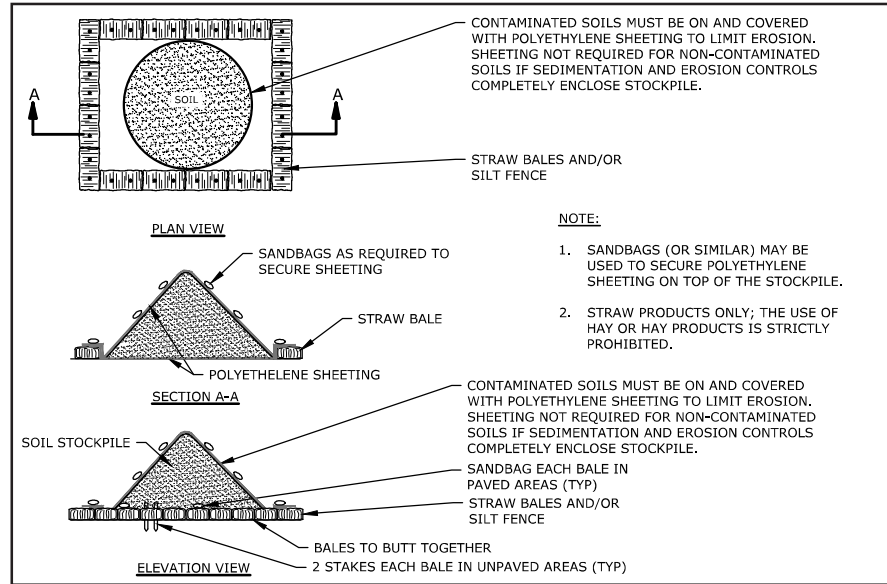
1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY, AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACE SHOULD BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
5. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.

							<b>EVSOURCE ENERGY</b>	
							<b>MONTVILLE SUBSTATION TO NORTH OF KITEMAUG ROAD REBUILD PROJECT WETLAND AND WATERCOURSE PROTECTION PLAN &amp; WETLAND INVASIVE SPECIES CONTROL</b>	
							<b>MONTVILLE, CT</b>	<b>NOVEMBER 15, 2023</b>
NO.	DATE	REVISIONS	BY	CHK	APP	APP		

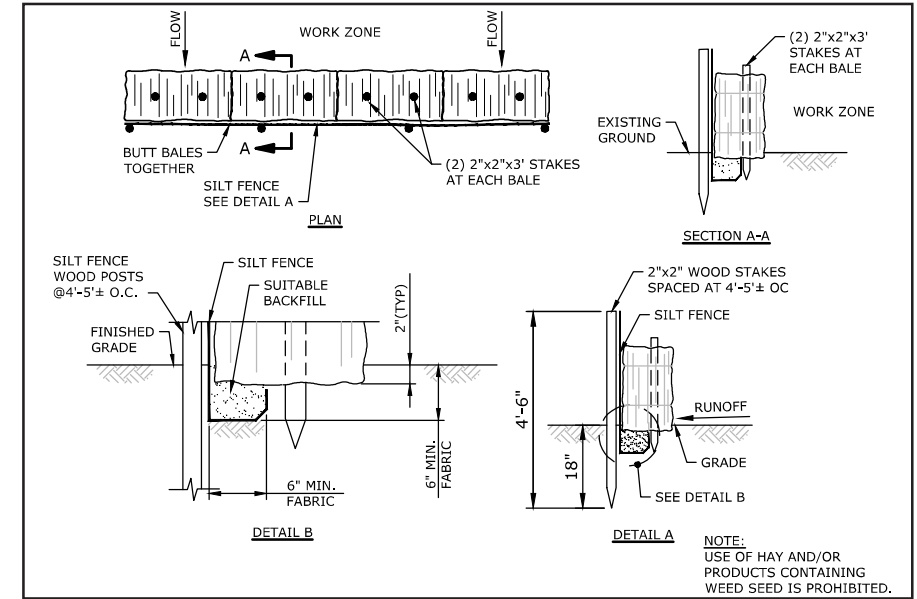
**WATER BARS**



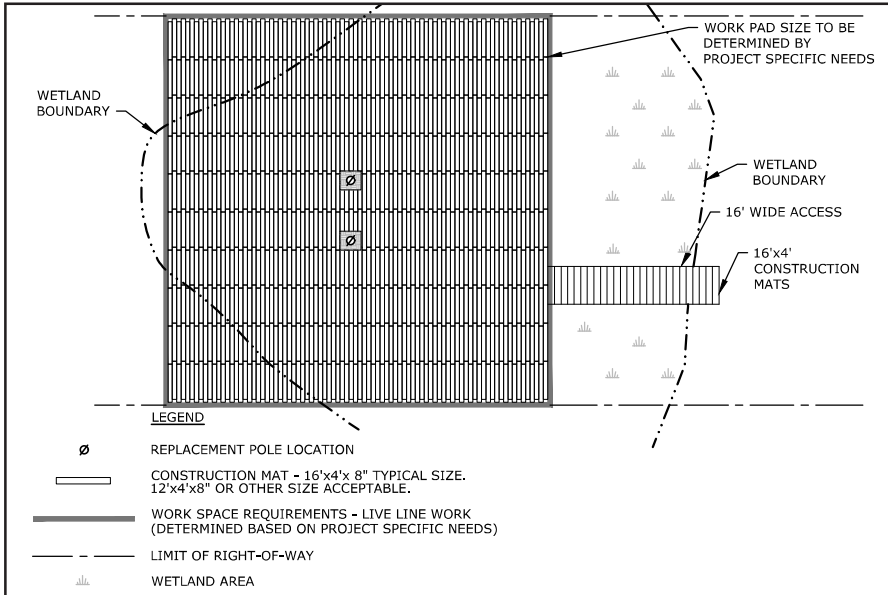
**SOIL STOCKPILE MANAGEMENT**



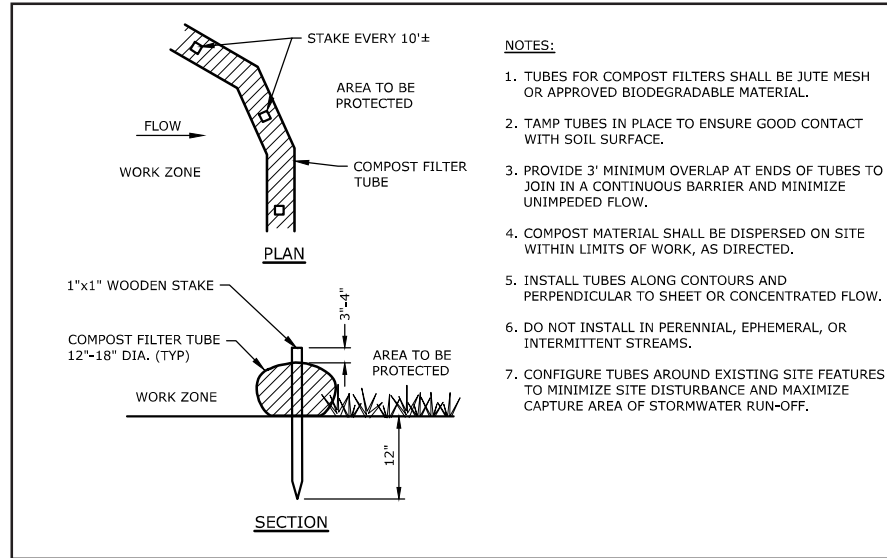
**STRAW BALE BARRIER**



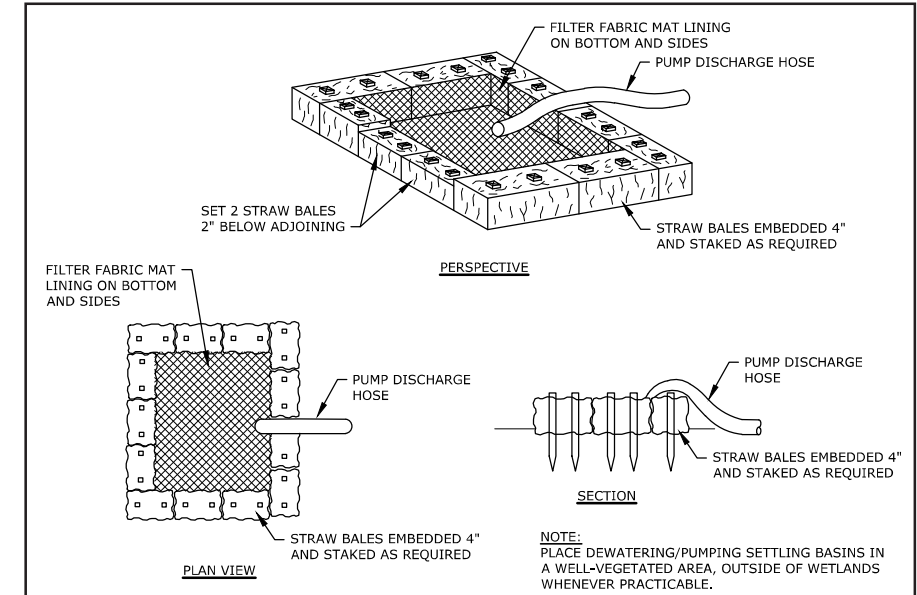
**CONSTRUCTION MAT LAYOUT (LIVE LINE WORK)**



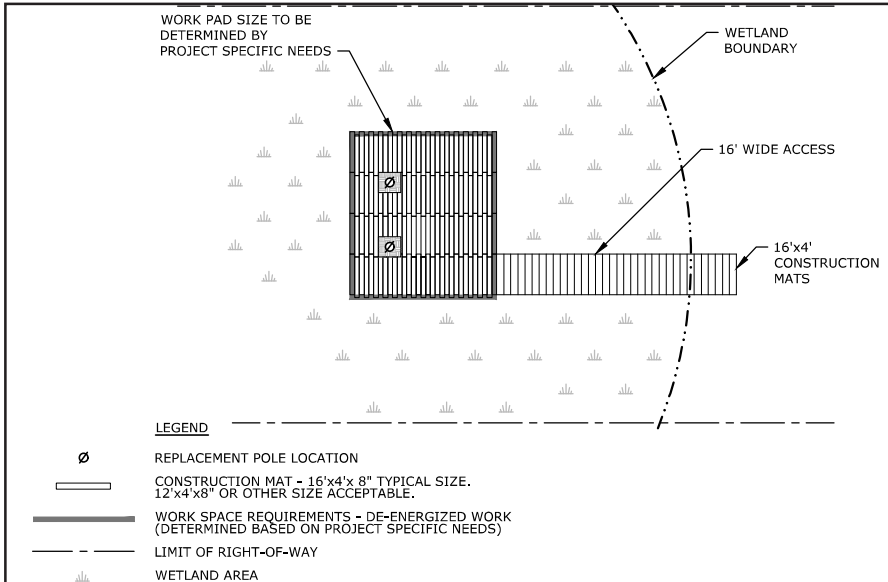
**COMPOST FILTER TUBE**



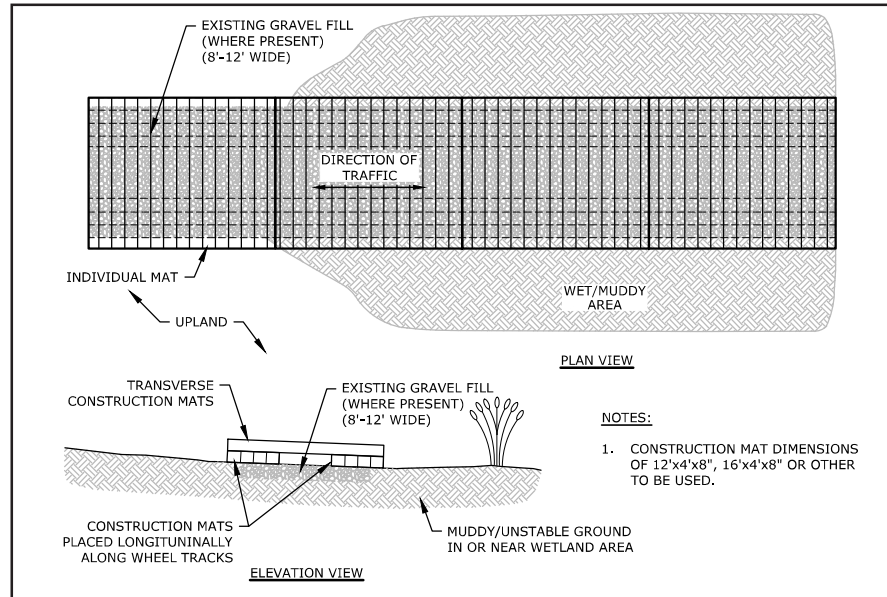
**DEWATERING BASIN**



**CONSTRUCTION MAT LAYOUT (DE-ENERGIZED LINE WORK)**



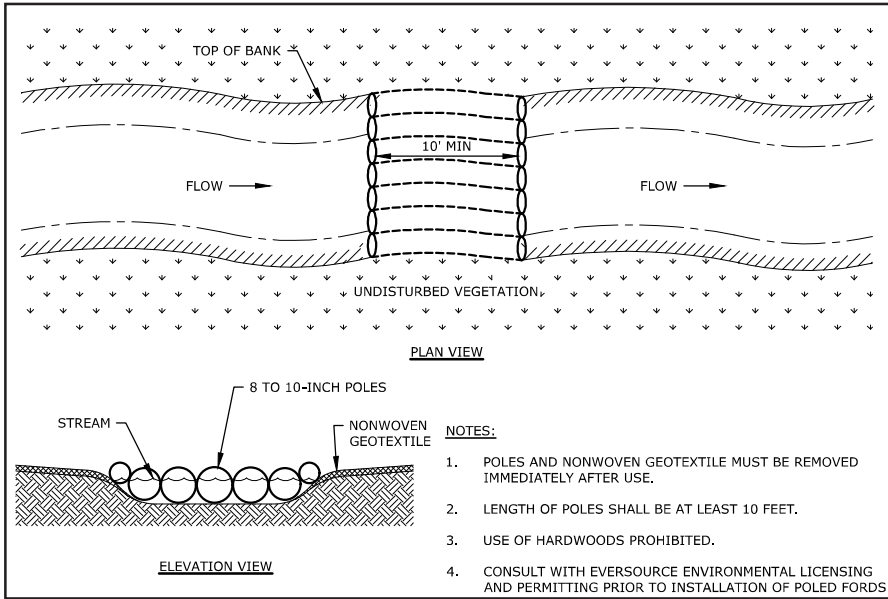
**CONSTRUCTION MAT WETLAND CROSSING**



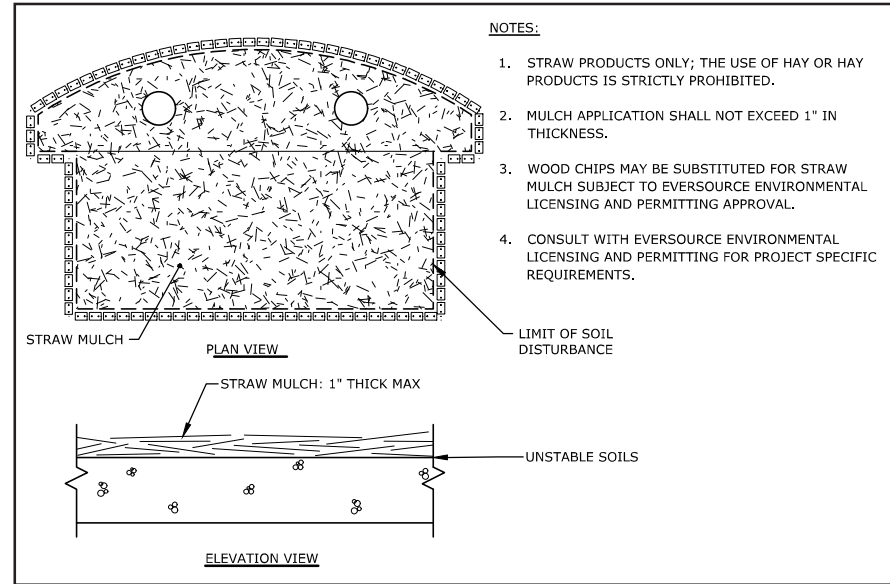
						<b>EVERSOURCE ENERGY</b>	
						<b>MONTVILLE SUBSTATION TO NORTH OF KITMAUG ROAD REBUILD PROJECT WETLAND AND WATERCOURSE PROTECTION PLAN DETAIL SHEET</b>	
						MONTVILLE, CT	NOVEMBER 15, 2023
NO.	DATE	REVISIONS	BY	CHK	APP	APP	



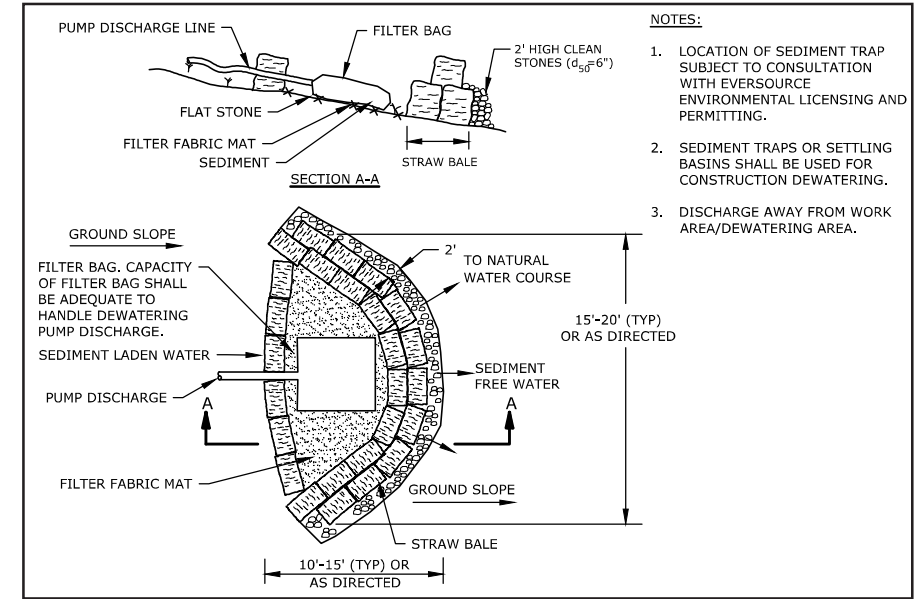
**POLE FORD**



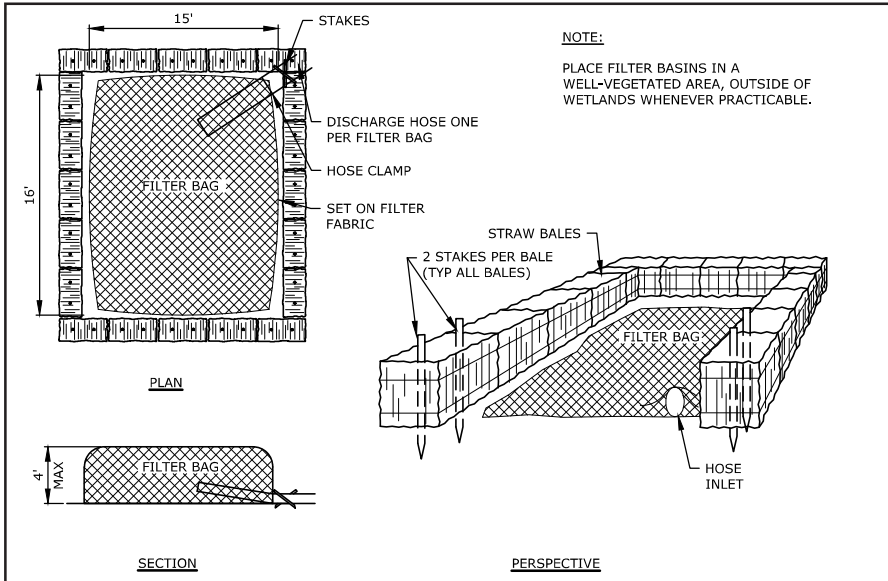
**STRAW MULCH**



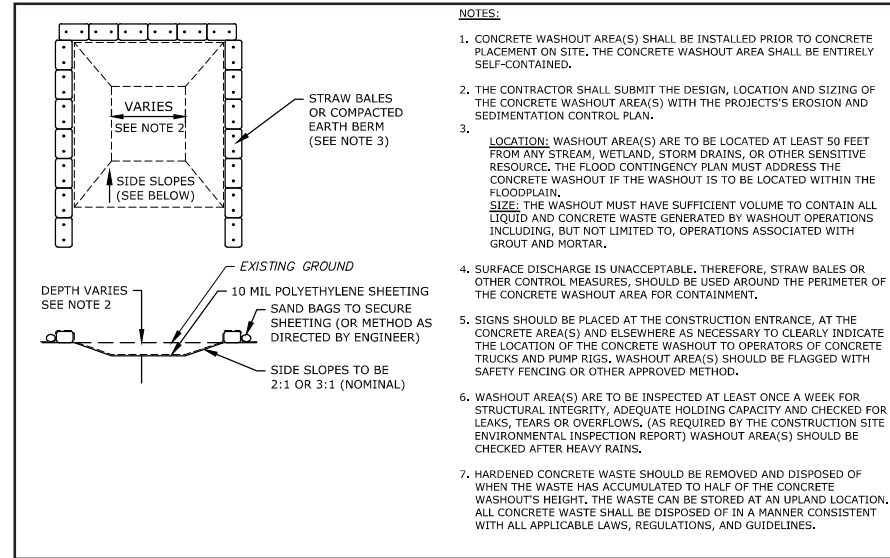
**SEDIMENT TRAP**



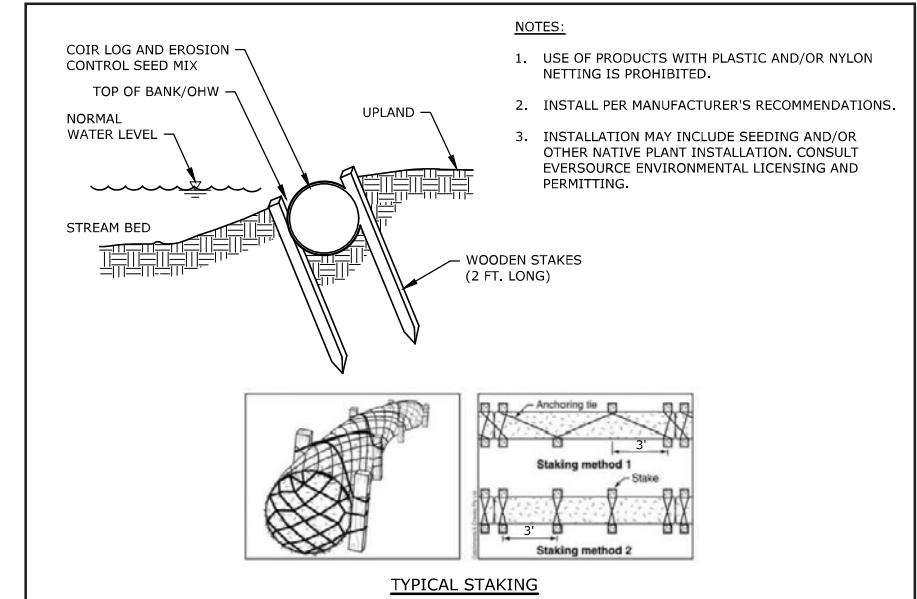
**DEWATERING BASIN (FILTER BAG)**



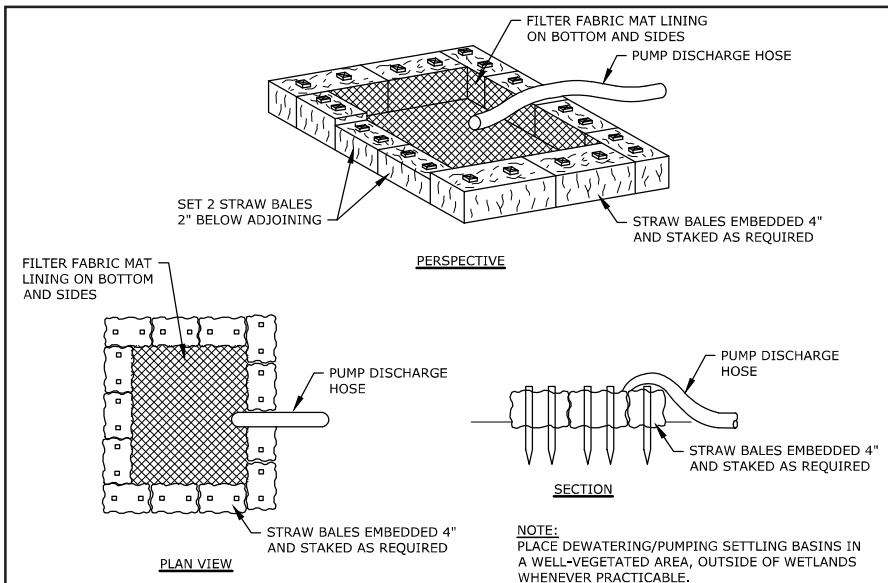
**CONCRETE WASHOUT**



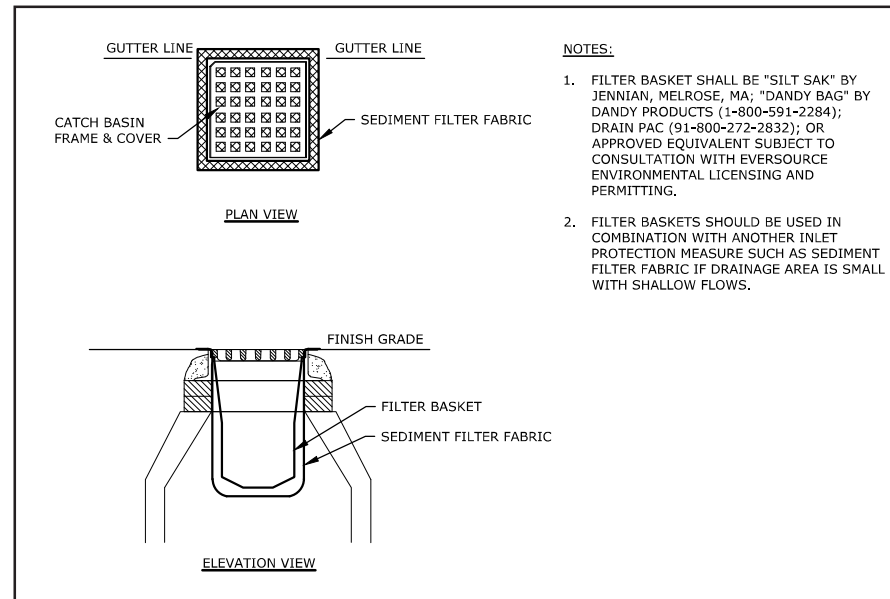
**COIR LOG**



**DEWATERING BASIN**



**CATCH BASIN INLET PROTECTION SILT SACK**



						<b>EVSOURCE ENERGY</b>	
						<b>MONTVILLE SUBSTATION TO NORTH OF KITEMAUG ROAD REBUILD PROJECT WETLAND AND WATERCOURSE PROTECTION PLAN DETAIL SHEET</b>	
						<b>MONTVILLE, CT</b>	<b>NOVEMBER 15, 2023</b>
NO.	DATE	REVISIONS	BY	CHK	APP	APP	

**Attachment B**

**NDDB Determination Letter, dated July 27,2022**



July 27, 2022

Michelle Ford  
Eversource Energy Service Company  
107 Selden St.  
Berlin, CT 06037  
[MICHELLE.FORD@EVERSOURCE.COM](mailto:MICHELLE.FORD@EVERSOURCE.COM)

**NDDB DETERMINATION NUMBER:** 202207378

**Project:** Eversource Replacement of ninety-nine structures & optical ground wire along the 1080/1490 & 100/1070/1090 Lines, Salem Turnpike (Rte 82), Norwich (Structures 6344, 7657), Leffingwell Road, Norwich (Structures 6343, 7656), McNaught Drive, Montville (Structures 6340, 7653), Norwich-New London Tpke, Montville (Structures 6320, 7625, 7624), Massapeag Road, Montville (Structures 7623, 6318), Kitemaug Road, Montville (Structure 7608), Depot Road, Montville (Structures 7606, 7607), Dock Road, Montville (Structures 7603, 7604), Card St, Norwich to Salem Tpke, Montville, CT

**Expiration:** July 27, 2024

I have reviewed Natural Diversity Database (NDDB) maps and files regarding this project. According to our records, there are State-listed species (RCSA Sec. 26-306) documented within the proposed project area.

**Map Sheet 30**

**Spotted turtle (*Clemmys guttata*) State Status: Special Concern**

**Eastern pearlshell (*Margaritifera margaritifera*) State Status: Special Concern**

**Bridle shiner (*Notropis bifrenatus*) State Status: Special Concern**

**Map Sheet 31**

No conflict

**Map Sheet 35**

No conflict

**Map Sheet 36**

No conflict

**Map Sheet 38**

No conflict

**Map Sheet 39**

No conflict

**Map Sheet 40**

**Peregrine falcon (*Falco peregrinus*) State Status: Threatened**

Protection measures are included below:

**Spotted turtle (*Clemmys guttata*) State Status: Special Concern**

Land disturbance activities need to consider local habitat features and apply fencing and/or time of year restrictions as appropriate. We recommend you consult with a herpetologist familiar with preferred habitats to assist you with proper techniques to ensure the best protection strategies are employed for your site and the scope of your project.

- Land disturbance and excavation confined to the upland can be done without risk for impact if work is restricted to the dormant season (November 1- March 15).

If land disturbance activity will include significant areas within and around wetlands, you will need to take precautions to avoid impacting hibernating adults. Consult with a qualified herpetologist to assess your work impact zone for the potential to impact overwintering spotted turtle.

- Do not conduct land disturbance activities that will impact suitable overwintering wetland habitat during the turtle's dormant period (November 1- March 15).

To prevent turtle access and entry into your upland work zone between March 16-October 31:

- Exclusionary practices will be required to prevent any turtle access into construction areas. These measures will need to be installed at the limits of disturbance as shown on the plans, or be specifically designated by a qualified herpetologist.
- Exclusionary fencing be at least 20 inches tall and must be secured to and remain in contact with the ground and be regularly maintained (at least bi-weekly and after major weather events) to secure any gaps or openings at ground level that may let animal pass through.
- Prior to construction, all turtles occurring within fencing work area will be relocated to suitable habitat outside disturbance area. This should be performed by a qualified professional familiar with habitat requirements and behavior of the species.
- The Contractor must search the work area each morning prior to any work being done.
- All construction personnel working within the turtle habitat must be apprised of the species description and the possible presence of a listed species.
- Any turtles encountered within the immediate work area shall be carefully moved to an adjacent area outside of the excluded area and fencing should be inspected to identify and remove access point. These animals are protected by law and no turtles should be relocated from the site.

Swamp mats have the potential to entrap wildlife (especially turtles) that may fall into the crevices and gaps, where they may be exposed to predation or dangerous temperatures on a sunny day. Take precautions to block or stop wildlife from trying to cross the mat. Especially in areas where sensitive turtles may occur, inspect swamp mats at the beginning and end of workday to ensure turtles have not become trapped. Additionally clean mats between use locations to avoid invasive species transfer.

**Eastern pearlshell (*Margaritifera margaritifera*) State Status: Special Concern**

**Bridle shiner (*Notropis bifrenatus*) State Status: Special Concern**

Freshwater mussels are aquatic animals that play an important role in our environment. These sedentary organisms live in sediments on the bottom of streams and rivers and provide a service to all by filtering water and removing bacteria and phytoplankton. It is because they are filter-feeding animals that they are very susceptible to sediments and pollutants in the water in which they live. The greatest diversity of freshwater mussels in the world is found in Eastern North America. Freshwater mussels are one of the most endangered groups of animals with almost three-quarters of the native mussels in North America imperiled. The

disappearance of freshwater mussels is a reliable indicator of chronic water pollution. The following considerations will help protect and benefit freshwater mussels and other aquatic species.

- Adhere strictly to water quality standards at your project site.
- No vegetation should be removed from the 100ft buffer of waterways.
- Turf grass and impervious surface should be minimized in the surrounding watershed.
- Ensure precautions are taken to avoid direct kill of freshwater mussels during any instream construction, modification or crossing.
- Employ precautions to prevent the introduction and spread of invasive plants and bivalves.
- Use best management practices available to control stormwater runoff from this site both during construction and after construction: Stock-piled soils should be situated at least 10 feet from the watercourse and within sedimentation and erosion control devices.

**Peregrine falcon (*Falco peregrinus*) State Status: Threatened**

Habitat: cliff faces and under bridges. This falcon nests from April through July and is very susceptible to human disturbance during this time. Peregrine falcons are very territorial during the breeding season and will make their presence known if in close proximity to a nest site. The wildlife division recommends a 660' setback from nests with no public access. To determine if a nest in your area is active this year contact the DEEP Wildlife Biologist coordinating Peregrine falcon monitoring (Brian.hess@ct.gov).

- Our mapped records indicate your project boundary is just outside of 660ft of this sensitive resource.
- Between April- July: Do not introduce new work activities and staging areas within 330 feet (approximately 100 meters) of active nests that are out of line of sight, or within 660 feet (approximately 200 meters) from nests that are in the line of sight of nests.

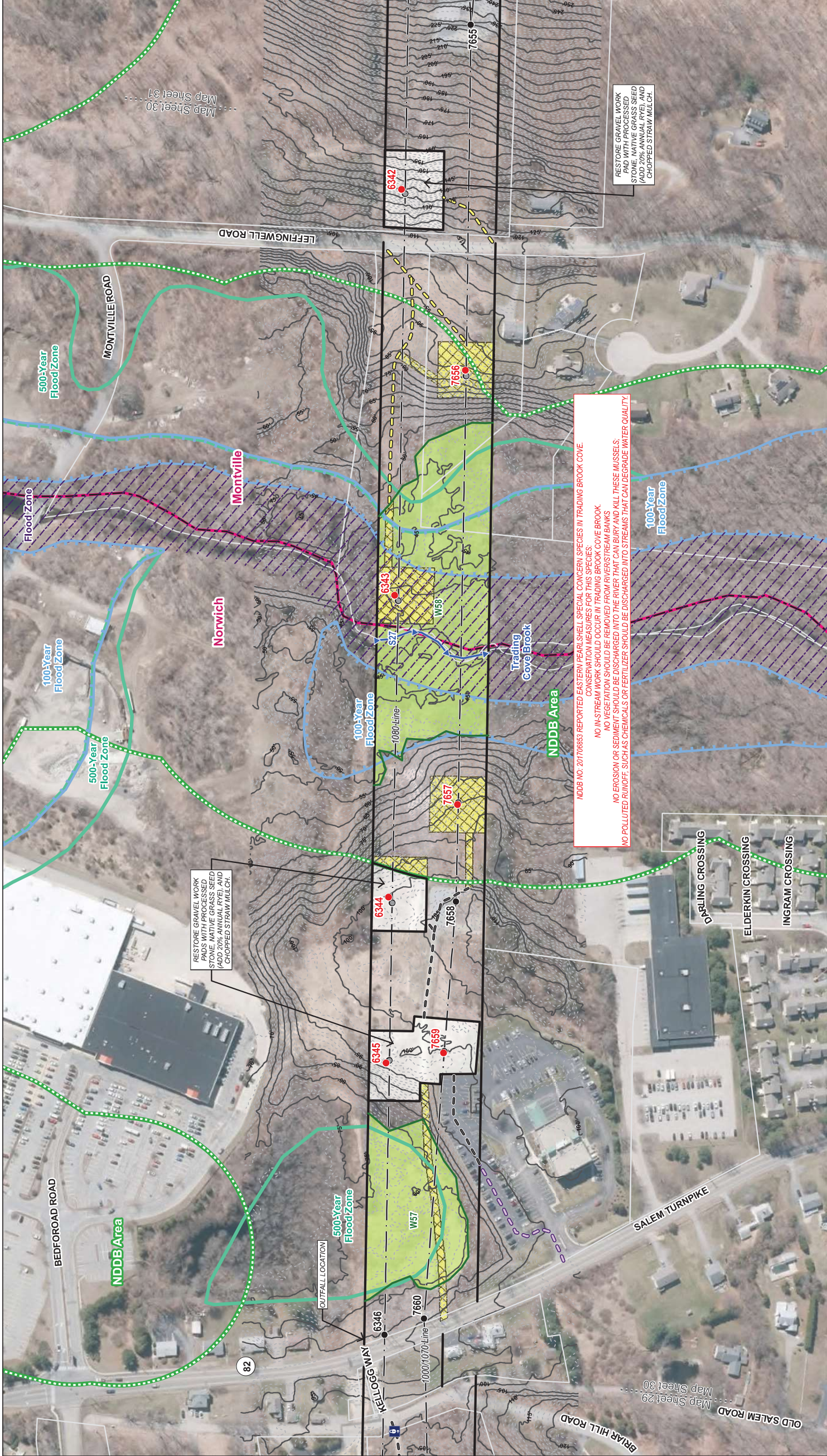
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Natural Diversity Database information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDDB as it becomes available.

Please contact me if you have any questions ([shannon.kearney@ct.gov](mailto:shannon.kearney@ct.gov)). Thank you for consulting with the Natural Diversity Database and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney  
Wildlife Biologist



**Legend**

- Proposed Structure
- Proposed Guy
- Existing Structure
- Existing Right-of-Way (ROW)
- Overhead Eversource Line
- Railroad
- 1' Contour Line
- 5' Contour Line
- Stone Wall

**Legend**

- Natural Diversity Database Area (Dec 2021)
- State Owned Property
- Princel Boundary
- Environmental Land Use Restricted (ELUR)
- Area (see Assessment Survey Plan)
- Municipal Boundary
- Map Sheet Matchline

**Map Notes:**  
This mapping product has been created to comply with...  
1 inch = 200 feet  
0 50 100 200 Feet

**EVERSOURCE ENERGY**

**NDDB Attachment B: Detailed Site Map**  
Card Substation to Montville Substation  
(1080/1490 Line & 1000/1070/1090 Lines)  
Asset Condition Structure Replacement and OPGW Project

Norwich, CT  
Map Sheet 30 of 40  
Date: June, 2022

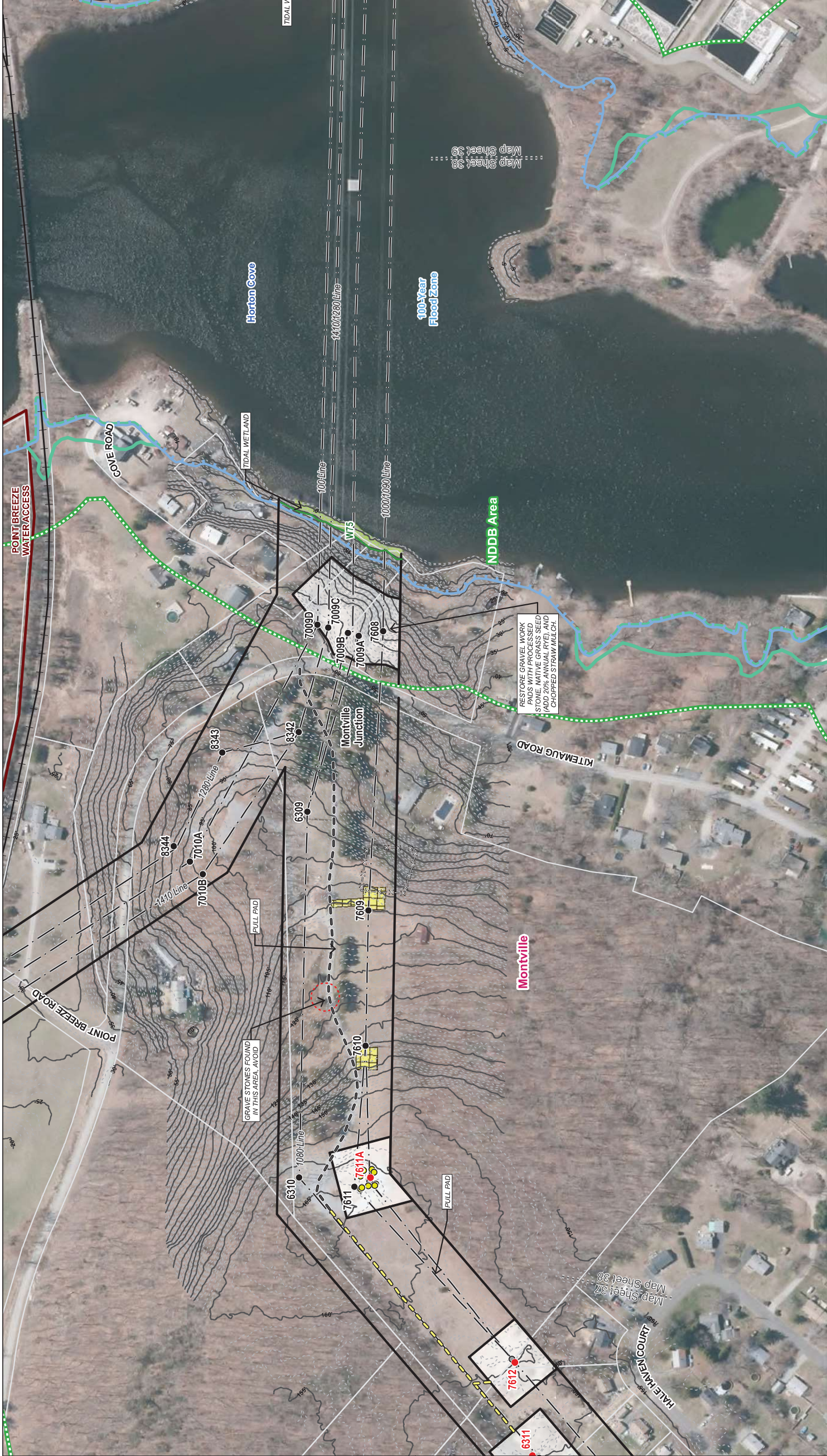
INDEX MAP











**Map Notes:**  
This mapping product has been created to comply with regulatory requirements to obtain certain regulatory approvals (not for any other purposes). Parcel, ROW boundaries, and structure locations are approximate (NOT from survey). Parcel absolute data provided by Eversource Oct. 2021.

1 inch = 200 feet  
0 50 100 200 Feet

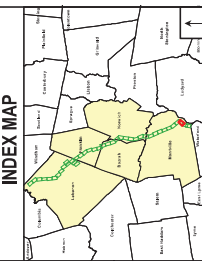
**EVERSOURCE ENERGY**

**NDDB Attachment B: Detailed Site Map**  
Card Substation to Montville Substation  
(1080/1490 Line & 1000/1070/1090 Lines)  
Asset Condition Structure Replacement and OPGW Project

Montville, CT  
Map Sheet 38 of 40  
Date: June, 2022

**Legend**

- Proposed Structure
- Proposed Guy
- Existing Structure
- Existing Right-of-Way (ROW)
- Overhead Eversource Line
- Railroad
- 1' Contour Line
- 5' Contour Line
- Stone Wall
- Proposed Fence
- Gate
- Culvert
- Stone Work Pad
- Temporary Construction Matting
- Existing Access
- Proposed Access
- OH-ROW Access Pending Rights
- Natural Diversity Database Area (Dec 2021)
- State Owned Property
- Parcel Boundary
- Environmental Land Use Restricted (ELUR) Area (see Assessment Survey Plan)
- Municipal Boundary
- Map Sheet Matching
- Delimited Wetland Boundary Outline
- Field Delimited Wetland
- CT Alluvial Floodplain Wetland Only
- Open Water
- Delimited Perennial Stream
- Delimited Intermittent Watercourse
- Delimited Ordinary High Water Mark
- Confirmed Vertical Pool Element
- 100' Wetland Pool Envelope
- Natural Diversity Database Area (Dec 2021)
- State Owned Property
- Parcel Boundary
- Environmental Land Use Restricted (ELUR) Area (see Assessment Survey Plan)
- Municipal Boundary
- Map Sheet Matching
- Delimited Wetland Boundary Outline
- Field Delimited Wetland
- CT Alluvial Floodplain Wetland Only
- Open Water
- Delimited Perennial Stream
- Delimited Intermittent Watercourse
- Delimited Ordinary High Water Mark
- Confirmed Vertical Pool Element
- 100' Wetland Pool Envelope



Map Sheet 38 of 40



**EVERSOURCE ENERGY**

**NDDB Attachment B: Detailed Site Map**  
**Card Substation to Montville Substation**  
**(1080/1490 Line & 1000/1070/1090 Lines)**  
**Asset Condition Structure Replacement and OPGW Project**

Montville, CT  
 Map Sheet 39 of 40  
 Date: June, 2022

**Map Notes:**  
 This mapping product has been created to comply with  
 regulatory requirements to obtain certain regulatory approvals  
 for any other purposes. Parcels, ROW boundaries, and  
 structure locations are approximate (NOT from survey).  
 Parcel absolute data provided by Eversource Oct. 2021.

1 inch = 200 feet  
 0 50 100 200 Feet

**Legend**

- Proposed Structure
- Proposed Guy
- Existing Structure
- Existing Right-of-Way (ROW)
- Overhead Eversource Line
- Railroad
- 1' Contour Line
- 5' Contour Line
- Stone Wall
- Proposed Fence
- Gate
- Culvert
- Stone Work Pad
- Temporary Construction Matting
- Access Road to be Improved
- Proposed Access
- Off-ROW Access Perching Rights
- Delimited Wetland Boundary Outline
- Natural Diversity Database Area (Dec 2021)
- IE Critical Habitat (note in mapped extent)
- Open Water
- Delimited Perennial Stream
- Delimited Intermittent Watercourse
- Delimited Ordinary High Water Mark (mapped extent)
- Confirmed Wetland
- 100' Wetland Pool Envelope
- State Owned Property
- Parcel Boundary
- Environmental Land Use Restricted (ELUR)
- Area (see Assessment Survey Plan)
- Municipal Boundary
- Map Sheet Matching

**INDEX MAP**

**Map Sheet 39**

**Map Sheet 38**

**Map Sheet 40**

**Map Sheet 37**

**Map Sheet 36**

**Map Sheet 35**

**Map Sheet 34**

**Map Sheet 33**

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**Map Sheet 31**

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**Map Sheet 26**

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**Map Sheet 18**

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**Map Sheet 16**

**Map Sheet 15**

**Map Sheet 14**

**Map Sheet 13**

**Map Sheet 12**

**Map Sheet 11**

**Map Sheet 10**

**Map Sheet 9**

**Map Sheet 8**

**Map Sheet 7**

**Map Sheet 6**

**Map Sheet 5**

**Map Sheet 4**

**Map Sheet 3**

**Map Sheet 2**

**Map Sheet 1**

**Map Sheet 0**

**Map Sheet -1**

**Map Sheet -2**

**Map Sheet -3**

**Map Sheet -4**

**Map Sheet -5**

**Map Sheet -6**

**Map Sheet -7**

**Map Sheet -8**

**Map Sheet -9**

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**Map Sheet -12**

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**Map Sheet -14**

**Map Sheet -15**

**Map Sheet -16**

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**Map Sheet -92**

**Map Sheet -93**

**Map Sheet -94**

**Map Sheet -95**

**Map Sheet -96**

**Map Sheet -97**

**Map Sheet -98**

**Map Sheet -99**

**Map Sheet -100**



**Attachment C**

**State Historic Preservation Office Review Letter, dated September 18, 2023**

September 18, 2023

Mr. David George  
Heritage Consultants, LLC  
830 Berlin Turnpike  
Berlin, CT 06037  
(sent only via email to [dgeorge@heritage-consultants.com](mailto:dgeorge@heritage-consultants.com))

Subject: Archaeological Reconnaissance Survey of Proposed Tree Clearing  
Eversource Energy Montville Substation to North of Kitemaug Road Rebuild Project  
Montville, Connecticut

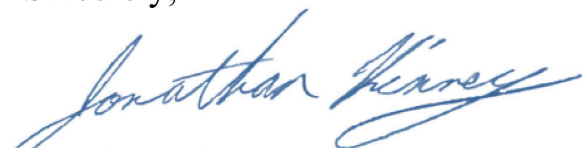
Dear Mr. George:

The State Historic Preservation Office (SHPO) has reviewed the end-of-fieldwork memorandum titled *Summary Report for Phase IB Reconnaissance Survey of Tree Clearing Areas TRA-1 through TRA-6 Associated with the Montville Substation to North of Kitemaug Road Rebuild Project in Montville, Connecticut* prepared by Heritage Consultants, LLC (Heritage), dated September 8, 2023. SHPO understands that the proposed project entails the clearing of trees from several areas within the Eversource Energy right-of-way (ROW) between Montville Substation and North of Kitemaug Road. The fieldwork was completed in support of required permitting issued by the United States Army Corps of Engineers. Based on the information submitted to our office, the fieldwork appears to meet the standards set forth in the *Environmental Review Primer for Connecticut's Archaeological Resources*.

Heritage completed an archaeological assessment survey of the proposed project in June of 2023. The survey concluded that six of the proposed tree clearing locations (TRA-1 through TRA-6) were within areas of moderate/high archaeological sensitivity. A subsequent pedestrian survey revealed that all but TRA-2 contained previous disturbance and/or steep slopes and were therefore reclassified as retaining no/low archaeological sensitivity. An archaeological reconnaissance survey of TRA-2 was completed by Heritage in August of 2023. During survey, four shovel tests were excavated at 5-meter intervals throughout the portion of TRA-2 retaining archaeological sensitivity. The field effort failed to identify evidence of cultural material or features. However, several broken and strewn headstones were located approximately 50 feet outside of TRA-2. Heritage indicated that the headstones have been recorded on project mapping. In addition, the memorandum recommended the avoidance of any potential work activities in the area. Further Heritage recommended the immediate halt of work should any remains be identified as well as the notification of the State Medical Examiner and State Archaeologist. SHPO concurs with these recommendations and is of the opinion that no historic properties will be affected by the proposed undertaking.

This office appreciates the opportunity to review and comment upon this project. Comments are provided in accordance with the National Historic Preservation Act, as amended. Do not hesitate to contact Cory Atkinson, Staff Archaeologist and Environmental Reviewer, for additional information at (860) 500-2458 or [cory.atkinson@ct.gov](mailto:cory.atkinson@ct.gov).

Sincerely,



Jonathan Kinney  
State Historic Preservation Officer