

PUBLIC NOTICE

US Army Corps of Engineers®

Applicant: Kathy Castro, The Narragansett Electric Company (TNEC) C/O Marc Smith Published: March 25, 2025 Expires: April 9, 2025

New England District Permit Application No. NAE-2024-01914

TO WHOM IT MAY CONCERN: The New England District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403). The purpose of this public notice is to solicit comments from the public regarding the work described below:

APPLICANT: Kathy Castro

The Narragansett Electric Company (TNEC) C/O Marc Smith 280 Melrose Street Providence, Rhode Island 02907

AGENT: Adam Rosenblatt VHB 1 Cedar Street Suite 400 Providence, Rhode Island 02903

WATERWAY AND LOCATION: The project would affect waters of the United States and navigable waters of the United States associated with the Palmer River, Silver Creek, unnamed tributaries and unnamed wetlands. The project/review area is located within approximately 5.2 miles of an existing maintained transmission line right-of-way (ROW) beginning at the Massachusetts and Rhode Island state line in Warren, Rhode Island, and terminating at the Bristol Substation at 99 Gooding Avenue in Bristol, Rhode Island.

EXISTING CONDITIONS: The existing project area consists of approximately 5.2 miles of managed transmission line ROW. The ROW begins at the Massachusetts / Rhode Island border and is parallel to the Palmer River before crossing the river near the Warren Substation at 34 Norbert Street in Warren, Rhode Island. The ROW continues east from the Warren Substation before turning south and continuing to the Bristol Substation at 99 Gooding Avenue in Bristol, Rhode Island. The existing ROW is maintained at widths of approximately 150 – 200 feet wide and contains electrical transmission infrastructure.

PROJECT PURPOSE:

Basic: Electricity transmission.

Overall: The applicant's stated project purpose is to improve the condition, reliability, and performance of the E183-3 and F184-N-4/5 Lines in Bristol and Warren.

PROPOSED WORK: The applicant requests authorization to discharge permanent fill material within 2,176 square feet (SF) of waters of the United States (WOTUS), consisting of 1,322 SF of salt marsh and 854 SF of non-tidal wetlands. Additionally, the applicant proposes to install four pole structures attached to concrete caisson foundations and to remove six existing pole structures below Mean High Water (MHW) associated with the reconstruction of the E183-3 and F184N-4 Lines between the Massachusetts and Rhode Island state line and the Warren Substation, the reconstruction of the F184N-5 Line between the Warren and Bristol Substations, and the reconfiguration of the Warren Substation taps in Bristol and Warren, Rhode Island. The project would replace 104 wooden structures, one steel structure and the associated overhead equipment with steel monopole structures. Replacement structures would be directly embedded proximate to their existing location and concrete caisson foundations will be required for replacement corner structures and some of the replacement structures located within WOTUS. The project also proposes temporary impacts within 826,078 SF of WOTUS, including 448,563 SF of salt marsh and 377,515 SF of non-tidal wetlands, due to temporary construction matting proposed to provide construction access, work areas and to minimize soil disturbance.

AVOIDANCE AND MINIMIZATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment: The project has been designed to avoid and minimize impacts to waters of the United States using various best management practices, including the installation of erosion and sedimentation controls at the project limits, utilizing existing access routes, avoiding wetlands and crossing wetlands at the most narrow point possible or previously used (if evident), avoiding and minimizing stream crossings, minimizing width of access roads to a maximum of 16 feet, conducting work manually in wetlands wherever possible, utilizing temporary construction matting to limit permanent impacts into waters of the U.S., and installing replacement structures proximate to their existing locations.

COMPENSATORY MITIGATION: The applicant offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment: The applicant proposes to construct a 3,085 square-foot salt marsh restoration area and 2,375 square-foot freshwater wetland restoration area to address federal mitigation requirements. The mitigation site is located within the same watershed as the proposed project (HUC 12-010900040701) on an off-site parcel owned by The Narragansett Electric Company located at 28 Brown Street in Warren, Rhode Island. The applicant is also considering using the Massachusetts In-Lieu Fee Program as the sole

compensatory mitigation vehicle.

CULTURAL RESOURCES: The Corps is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, federally recognized tribes and other interested parties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

ENDANGERED SPECIES: The Corps has performed an initial review of the application, the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), National Marine Fisheries Service (NMFS) Greater Atlantic Regional Fisheries Office (GARFO) Section 7 Mapper, and the NMFS Critical Habitat Mapper to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur in the vicinity of the proposed project. Based on this initial review, the Corps has made a preliminary determination that the proposed project may affect species and critical habitat listed below. No other ESA-listed species or critical habitat will be affected by the proposed action.

Species Common Name and/or Critical Habitat Name	Scientific Name	Federal Status
Northern long-eared bat	Myotis septentrionalis	Endangered
Northern long-carea bat		Lindangereu
Atlantic Sturgeon	Acipenser oxyrinchus oxyrinchus	Threatened/Endangered
Shortnose Sturgeon	Acipenser brevirostrum	Endangered
Tricolored bat	Perimyotis subflavus	Proposed Endangered
Monarch butterfly	Danaus plexippus	Proposed Threatened

Pursuant to Section 7 ESA, any required consultation with the Service(s) will be conducted in accordance with 50 CFR part 402.

This notice serves as request to the U.S. Fish and Wildlife Service and National Marine Fisheries Service for any additional information on whether any listed or proposed to be listed endangered or threatened species or critical habitat may be present in the area which would be affected by the proposed activity.

ESSENTIAL FISH HABITAT: Pursuant to the Magnuson-Stevens Fishery Conservation and Management Act 1996, the Corps reviewed the project area, examined information provided by the applicant, and consulted available species information.

The Corps intends to initiate Essential Fish Habitat (EFH) consultation separately from this public notice. A separate EFH consultation package will be sent to the National Marine Fisheries Service (NMFS). The Corps will not make a permit decision until the consultation process is complete.

Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NAVIGATION: The proposed structure or activity is not located in the vicinity of a federal navigation channel.

SECTION 408: The applicant will not require permission under Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) because the activity, in whole or in part, would not alter, occupy, or use a Corps Civil Works project.

WATER QUALITY CERTIFICATION: Water Quality Certification is required from the Rhode Island Department of Environmental Management (RIDEM) Water Quality Certification Program. The RIDEM Water Quality Certification Program application will serve as the application for Water Quality Certification under Section 401 of the Clean Water Act.

A Rhode Island Coastal Resources Management Council (CRMC) Category B Assent Application was submitted on November 15, 2024. The CRMC Category B Assent application will serve as the application for a consistency certification under Section 307(c) of the Coastal Zone Management Act.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the Corps jurisdiction has not been verified by Corps personnel.

EVALUATION: 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 benefits, 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 cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical 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. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

COMMENTS: The Corps 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 to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New England District will receive written comments on the proposed work, as outlined above, until April 9, 2025. Comments should be submitted electronically via the Regulatory Request System (RRS) at https://rrs.usace.army.mil/rrs or to Kevin Newton at kevin.m.newton@usace.army.mil. Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, New England District, Attention: Kevin Newton, Regulatory Division 696 Virginia Road Concord, Massachusetts 01742. Please refer to the permit application number in your comments.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Plan Set

Issued for: Army Corps of Engineers Individual Permit Revision Date 2/27/2025 Original Date: 1/3/2025

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E183-3 and F184N-4/5 115kV Transmission Lines **Asset Condition Refurbishment Project** DRAFT

Bristol and Warren, Rhode Island



EXISTING CONDITIONS INFORMATION: REFERENCES:

1. WETLAND DELINEATION WAS PERFORMED BY VHB, PROVIDENCE OFFICE. STRUCTURE AND FLAG LOCATIONS WERE LOCATED BY A GLOBAL POSITIONINGSYSTEM (GPS) FIELD SURVEY CONDUCTED BY VHB IN SEPTEMBER AND OCTOBER 2023. THIS SURVEY CONFORMS TO A CLASS IV STANDARD AS DEFINED IN THE PROCEDURAL AND TECHNICAL STANDARDS FOR PERFORMING LAND SURVEYING IN THE STATE OF RHODE ISLAND.

2. THE NOAA DATA ACCESS VIEWER WAS UTILIZED TO EXTRACT CONTOUR LINES AT 2-FOOT AND 10-FOOT INTERVALS, AS WE LLAS FOR MEAN HIGH WATER AT 2.12 FEET AND HIGHEST ASTRONOMICAL TIDE AT 3.78 FEET, FROM THE 2022 USGS LIDAR RHODE ISLAND STATEWIDE DATASET.

3. AERIAL IMAGERY WAS ACQUIRED FROM THE STATEWIDE, TRUE COLOR, 3-INCH SPATIAL RESOLUTION AERIAL PHOTOGRAPHS OF RHODE ISLAND. IMAGERY WAS COLLECTED MARCH 2024.

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Wetland ID	Impact Type	Permanent Impact (SF)	Temporary Construction Matting (SF)	Wetland ID	Impact Type	Permanent Impact (SF)	Temporary Construction Matti
W2-PEM	2 0514 Section 404 236 86,033 W/0.0 054	W10-PEM	Section 404		2		
AKE-LPIM	Section 404/Section 10	1	0	WAN-P SIN	Section 404/Section 10		
W2 SM-E2EM	Section 404	1,068	342,487	W11-PEM	Section 404		2
WZ SM-EZEM	Section 404/Section 10	154	57,295	WIT-PEM	Section 404/Section 10		
W2/3-PEM	Section 404	(1	3,063	W12-PEM	Section 404		
www.siPcivi	Section 404/Section 10	0	0	VV12/PCIV)	Section 404/Section 10		
W2/5-PEM	Section 404	10	11,909	W13-PSS	Section 404	0.56	
WZ/D-HEIW	Section 404/Section 10	10	0	W13-P55	Section 404/Section 10		
W2/W7-PSS	Section 404	78	17,289	W14-PEM	Section 404		1
VV2/VV7-P35	Section 404/Section 10	G	i i i i i i i i i i i i i i i i i i i	WI4-POW	Section 404/Section 10		1
W2/W7 SM-E2EM	Section 404	100	48,431	W15-PEM	Section 404		
AASTAAL SIAL-ESEIA	Section 404/Section 10	.0	350	AATD-60M	Section 404/Section ID		
W8-PEM	Section 404	39	34,252	W16-PSS	Section 404	1.08	
Wa-PEM	Section 404/Section 10	6	0		Section 404/Section 10		
110 000	Section 404	156	72,023	W16-RP2EM	Section 404	3	
W9-P55	Section 404/Section 10	10	0	WIO-RPZEW	Section 404/Section 10	1	

RINHP/WLT PROTECTION NOTES :

1. TURTLES:

PRE-CONSTRUCTION CONTRACTOR TRAINING BY A QUALIFIED BIOLOGIST FOR WORK WITHIN HABITAT AREAS.
 INSTALL CONSTRUCTION MATTING IN MARSH HABITAT AREAS DURING THE ACTIVE SEASON (APRIL 15 - OCTOBER 15) WITH MONITOR /AVOID PLACING CONSTRUCTION MATS IN MARSH HABITAT AREAS DURING ANIMAL DORMANCY (OCTOBER 16 - APRIL 14) WHENEVER POSSIBLE.
 •AVOID PLACING MATS IN TURTLE WINTER HABITAT BRIDGE OVER AREA OF OPEN WATER, TIDAL CREEKS AND MOSQUITO DITCHES.
 •INSTALL EXCLUSIONARY FENCING AROUND UPLAND NESTING HABITAT BEFORE MAY 15 TO ISOLATE WORK AREAS LOCATED WITHIN UPLAND NESTING HABITAT. DESTING HABITAT IDENTIFIED DURING THE FIELD DELINEATION AND ASSESSMENT INCLUDED THE EXPOSED SOIL AROUND THE OUTSIDE OF THE WARREN SUBSTATION FENCE.

•MAINTAIN TURTLE EXCLUSION FENCING DURING THE NESTING PERIOD FROM MAY15 - JULY15.

•TURTLES OBSERVED WITHIN WORK AREAS SHOULD BE MOVED AWAY FROM CONSTRUCTION ACTIVITIES BY A TRAINED TURTLE MONITOR. •REPORT OBSERVATIONS TO RIE ENVIRONMENTAL.

2. PLANTS:

•PRE-CONSTRUCTION CONTRACTOR TRAINING BY A QUALIFIED BIOLOGIST FOR WORK WITHIN HABITAT AREAS.

•AVOID INTRODUCTION AND SPREAD OF INVASIVE PLANTS TO THE GREATEST EXTENT POSSIBLE.

•CONDUCT VEGETATION MANAGEMENT ACTIVITIES BETWEEN NOVEMBER 1 AND APRIL 15 TO THE EXTENT PRACTICAL AND DO NOT CHIP. OR PILE SLASH WITHIN WETLANDS, IDENTIFIED RARE SPECIES HABITAT, OR WITHIN 50 FEET OF DELINEATED OCCURRENCES OR KNOWN ELEMENT OCCURRENCE RECORDS OF RARE SPECIES. IF VEGETATION MANAGEMENT ACTIVITIES MUST OCCUR DURING THE GROWING SEASON, WORK MUST BE PRECEDED BY A BOTANICAL SURVEY AND DELINEATION TO IDENTIFY VEGETATED AREAS TO AVOID OR WHERE VEGETATION MANAGEMENT MUST BE COMPLETED WITH HAND TOOLS.

•BOTANICAL SURVEY AND DELINEATION BY QUALIFIED BOTANIST DURING APPROPRIATE PLANT IDENTIFICATION PERIOD. •AVOID DELINEATED OCCURRENCES BY SHIFTING WORK AREAS. IF AVOIDANCE OF DIRECT IMPACTS IS NOT POSSIBLE, CONSULT BOTANIST TO IDENTIFY SITE-SPECIFIC PROTECTION AND IMPACT MINIMIZATION MEASURES (E.G., MAT BRIDGES, TRANSPLANTING). •REPORT OBSERVATIONS TO RIE ENVIRONMENTAL.

3. BIRDS:

PRE-CONSTRUCTION CONTRACTOR TRAINING BY A QUALIFIED BIOLOGIST FOR WORK WITHIN HABITAT AREAS.
 •AVOID WORK IN SALT MARSHES DURING BREEDING/FLEDGING SEASON (MAY 15 - AUGUST 15). IF WORK MUST BE CONDUCTED IN SALT MARSHES DURING BREEDING/FLEDGING SEASON, SURVEYS SHOULD BE CONDUCTED BY A QUALIFIED BIOLOGIST TO IDENTIFY ANY NESTS PRESENT IN WORK AREAS AND ALONG ACCESS ROUTES.

IF NESTS ARE PRESENT ALONG PROPOSED ACCESS ROUTES, ALTERNATIVE ACCESS ROUTES SHOULD BE IDENTIFIED.
IF NEST ARE PRESENT WITHIN PROPOSED WORK AREAS, WORK SHOULD BE DELAYED UNTIL HATCHLINGS HAVE FLEDGED.

EROSION AND SEDIMENT CONTROL NOTES:

1. PRIOR TO STARTING ANY SITE WORK, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

2. A SOIL EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN DESIGNED TO PROTECT ON-SITE WETLANDS AND WATERCOURSES AND OFF-SITE AREAS DURING AND AFTER CONSTRUCTION.

3 IN AREAS WHERE HIGH RUNOFF VELOCITIES OR HIGH SEDIMENT LOADS ARE EXPECTED, TWO LINES OF COMPOST FILTER SOCK (CFS) WILL BE INSTALLED BACK TO BACK.

4. TYPICAL CRUSHED-STONE CONSTRUCTION ENTRANCE/EXITS WILL BE CONSTRUCTED AT EACH STREET ACCESS POINT WITHIN THE PROJECT AREA.

5. ONCE WORK IS COMPLETE, FINAL SURFACE TREATMENT CONSISTING OF STRAW OR CELLULOSE MULCH WILL BE APPLIED TO STABILIZE THE DISTURBED AREAS.ANY SOIL DISTURBANCE ASSOCIATED WITH EQUIPMENT ACCESS TO STRUCTURES OR STRUCTURE EXCAVATIONS SHOULD BE MULCHED WITH STRAW ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

6. SEDIMENT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6 INCHES DEEP OR AS NEEDED.

7. DAMAGED OR DETERIORATED EROSION/SEDIMENTATION CONTROL ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.

8. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. ONCE THE SITE IS STABILIZED, THE STRAW BALES WILL BE REMOVED OR BROKEN UP AND SPREAD AS MULCH. ALL OTHER CONTROLS SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

9. IN THE EVENT OF A FUEL SPILL OR EQUIPMENT MALFUNCTION RESULTING IN A RELEASE OF HAZARDOUS MATERIAL, ALL WORK WILL BE STOPPED IN THIS AREA UNTIL THE RELEASE/SPILL IS CLEANED UP.

10. EQUIPMENT USED FOR CONSTRUCTION WILL BE PROPERLY MAINTAINED AND OPERATED TO REDUCE THE CHANCES OF SPILL OCCURRENCES OF PETROLEUM PRODUCTS. REFUELING OF EQUIPMENT WILL BE REQUIRED TO CARRY SPILL CONTAINMENT AND PREVENTION DEVICES (I.E., ABSORBENT PADS, CLEAN UP RAGS, FIVE GALLON CONTAINERS, ABSORBENT MATERIAL, ETC.) AT ALL TIMES. IN ADDITION, MAINTENANCE EQUIPMENT AND REPLACEMENT PARTS FOR CONSTRUCTION EQUIPMENT WILL BE ON HAND TO REPAIR FAILURES AND STOP A SPILL IN THE EVENT OF EQUIPMENT MALFUNCTION.

11. ANY HAZARDOUS WASTE SPILLS SHALL BE CLEANED UP IMMEDIATELY, AND IF THE SPILL AMOUNT IS EQUAL TO OR EXCEEDS THE EPA REPORTABLE QUANTITY (RQ) FOR THAT SUBSTANCE IN ACCORDANCE WITH 40 CFR PARTS 101C, 117, OR 302, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE NATIONAL RESPONSE CENTER AT 1-800-424-8802. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR SUBMITTING IN WRITING A DESCRIPTION OF THE RELEASE TO THE EPA REGIONAL OFFICE AND RIDEM PROVIDING THE DATE AND CIRCUMSTANCES OF THE RELEASE AND THE STEPS TO BE TAKEN TO PREVENT ANOTHER RELEASE. DIRECTIONS FOR CLEANING UP SPILLS SHALL BE CLEARLY POSTED AT A DESIGNATED ON-SITE LOCATION, AND CONSTRUCTION PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND LOCATION OF CLEANUP SUPPLIES. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE GEAR AND HAVE PROPER TRAINING TO PREVENT INJURY FROM CONTACT WITH ANY HAZARDOUS SUBSTANCES.

12. NO GRADE CHANGES ARE PROPOSED.

GERERAL NOTES

ting (SF)

1. STONE WALL DISMANTLING AND RE-BUILDING PROCEDURE REMOVAL OR ALTERATION OF STONE WALLS SHALL BE AVOIDED, WHENEVER POSSIBLE. STONE WALLS REMOVED OR BREACHED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REBUILT. THE REMOVAL AND REBUILDING OF STONE WALLS REQUIRES APPROVAL FROM THE RHODE ISLAND ENERGY ENVIRONMENTAL SCIENTIST AND PROPERTY LEGAL, MAY REQUIRE SEVERAL WEEKS LEAD TIME FOR CCORDINATION AND SHALL BE COMPLETED IN ACCORDANCE WITH EG303 SECTION 9.0.

E18	3-3 and F184N-4/5 115
-	Asset Condition Refu

Notes Bristol and Warren, RI

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Source: RIGIS RI Energy VHB



















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SEEDING NOTES

SEEDING: ALWAYS APPLY ON CLEAN BARE SOIL. THE WETLAND SEEDS IN THIS MIX. CAN BE HAND SOWN, USED WITH A HAND-HELD SPREADER, OR HYDRO-SEEDED ON LARGE OR HARD TO REACH SITES, AS LONG AS THERE IS NO PERMANENT SNOW COVER. LIGHTLY RAKE TO ENSURE PROPER SOIL-SEED CONTACT. SEEDING CAN TAKE PLACE ON FROZEN SOIL, AS THE FREEZING, THAWING WEATHER OF LATE FALL AND LATE WINTER WILL WORK THE SEED INTO THE SOIL. IF SPRING CONDITIONS ARE DRIER THAN USUAL, WATERING MAY BE REQUIRED. IF PLANTING DURING THE SUMMER MONTHS, WATERING MAY BE REQUIRED FOR AT LEAST 2-3 WEEKS AFTER PLANTING TO ENSURE GERMINATION. A NON-INVASIVE ANNUAL SUCH AS WINTER RYE MAY BE ADDED TO THE MIX TO OBTAIN SOIL STABILIZATION COVER IN THE FALL. DO NOT ADD ANNUAL RYEGRASS, KENTUCKY BLUEGRASS OR PERENNIAL RYEGRASS AS THESE SPECIES ARE VERY AGGRESSIVE AND THEY WILL INHIBIT THE GROWTH OF THE WETLAND SEEDS. A LIGHT MULCH OF CLEAN, WEED FREE STRAW IS RECOMMENDED. NOTE: SEEDS WILL NOT GERMINATE UNDER INUNDATED CONDITIONS. NOT ALL SPECIES WILL GROW IN ALL WETLAND SITUATIONS.

APPLICATION RATE: 1 LB/2500 SQ. FT.

TYPICAL SPECIES: FOX SEDGE (CAREX VULPINOIDEA), SALLOW SEDGE (CAREX LURIDA), BROOM SEDGE (CAREX SCOPARIA), SENSITIVE FERN (ONOCLEA SENSIBILIS), BLUE VERVAIN(VERBENA HASTATA), HOP SEDGE (CAREX LUPULINA), DARK-GREEN BULRUSH (SCIRPUS ATROVIRENS), NODDING BUR-MARIGOLD (BIDENS CERNUA), BRISTLY SEDGE (CAREX COMOSA), FRINGED SEDGE (CAREX CRINITA), TALL MANNAGRASS (GLYCERIA GRANDIS), WOOL-GRASS (SCIRPUS CYPERINUS), SOFT RUSH (JUNCUS EFFUSUS), SPOTTED JOE-PYE-WEED (EUTROCHIUM MACULATUM), BONESET (EUPATORIUM PERFOLIATUM), AMERICAN WATER-PLANTAIN (ALISMA SUBCORDATUM), NEW ENGLAND ASTER (SYMPHYOTRICHUM NOVAE-ANGLIAE), RATTLESNAKE MANNAGRASS (GLYCERIA CANADENSIS), PURPLE-STEM ASTER (SYMPHYOTRICHUM PUNICEUM), SOFT-STEMMED BULRUSH (SCHOENOPLECTUS TABERNAEMONTANI), BLUEFLAG (IRIS VERSICOLOR), SWAMP MILKWEED (ASCLEPIAS INCARNATA), AND ALLEGHENY MONKEY-FLOWER (MIMULUS RINGENS).

NEW ENGLAND WETMIX TO BE USED WITHIN CONTIGUOUS FRESHWATER WETLAND RESTORATION AREA AND INSTALLED VIA SLICE SEEDING.

FROM NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MASSACHUSETTS







		5.		OUTER EDGE OF ROOTBALL OF CONTA		
Tree Planting		1/16	1/16		Shrub Planting	
Source: VH	N.T.S.	LD_600	REV	Source: VHB	N.T.S.	
E183 and F184 115kV Tra						
Asset Condition Refurbis						
Planting Detai Warren, RI						
Plan 4						
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Detail #1



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Busine	ss Use

Detail #2

E183-3 and F184N-4/5 115k
Asset Condition Refur
Details Bristol and Wa
Page 27 o
Source: RIGIS, National Grid, VHB

















Detail #10



Detail #11

E183-3 and F184N-4/5 115kV Transmission Lines **Asset Condition Refurbishment Project** Details Bristol and Warren, RI Page 30 of 31 Source: RIGIS, National Grid, VHB





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Detail #13



Detail #14



