



State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

PUBLIC NOTICE

File Number: 2024-12-004

Date: March 26, 2025

This office has under consideration the application of:

**The Narragansett Electric Company
280 Melrose Street
Providence, RI 02907**

for a State of Rhode Island Assent to construct and maintain:

Replace/rebuild/reconfigure 1.9 miles of E183-3 and F184N-4/5 115kV Transmission Lines through Warren. CRMC portion of project extends from Massachusetts State line to Kickemuit Rd. The project will result in the permanent alteration of 1,607ft² of coastal wetland. Project requires a Special Exception to 650-RICR-20-00-1.2.2(C)(1)(c - d) and (C)(2)(a - b). In accordance with §1.3.1(L)(5), 5,460ft² of mitigation wetland will be created, exceeding the 2:1 replacement requirement.

Project Location:	Lines E183-3 and F184N-4/5
City/Town:	Warren
Plat/Lot:	Plat 11, Lots 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 Plat 21, Lots 246, 54 Plat 9, Lot 18
Waterway:	Palmer River; Type 1 and Belchers Cove; Type 2

Plans of the proposed work can be requested at Cstaff1@crmc.ri.gov.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (**with your correct mailing address, e-mail address and valid contact number**) and be received at this office on or before **April 26, 2025**.

Please email your comments/hearing requests to: cstaff1@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

Plan Set

Issued for: CRMC Category B Assent
Date Issued: 11/15/2024
Revision Date: 2/5/2025

Sheet Index		
Number	Drawing Title	Latest Issue
2	Notes	2/5/2025
3	Index	2/5/2025
4-12	Site Access and BMP Plan	2/5/2025
13-16	Wetland Mitigation Plan	2/5/2025
17-21	Details	2/5/2025



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

Bristol and Warren, Rhode Island



Site Location Map

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 WELL AS 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.

Wetland ID	Wetland Type	Temporary Construction Matting (SF)	Wetland ID	Wetland Type	Temporary Construction Matting (SF)
Wetland 2	Coastal Wetland	459,293	Stormwater Management Basin 5.5		235
Wetland 2/3	Coastal Wetland	3,063	Stormwater Management Basin 5.5A		358
Wetland 2/5	Coastal Wetland	11,909	Wetland 2/7	Coastal Wetland	64,310

RINH/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. NESTING 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.
 - EXCAVATIONS SHOULD BE COMPLETED WITHIN ONE DAY IF POSSIBLE. IF EXCAVATIONS MUST REMAIN OPEN LONGER THAN ONE DAY, THEY SHOULD BE COVERED FLUSH TO THE GROUND TO PREVENT TURTLES FROM FALLING OR GETTING TRAPPED.
 - 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 1010, 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.
- GENERAL NOTES
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 COORDINATION AND SHALL BE COMPLETED IN ACCORDANCE WITH EG303 SECTION 9.0.

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

Notes
Bristol and Warren, RI

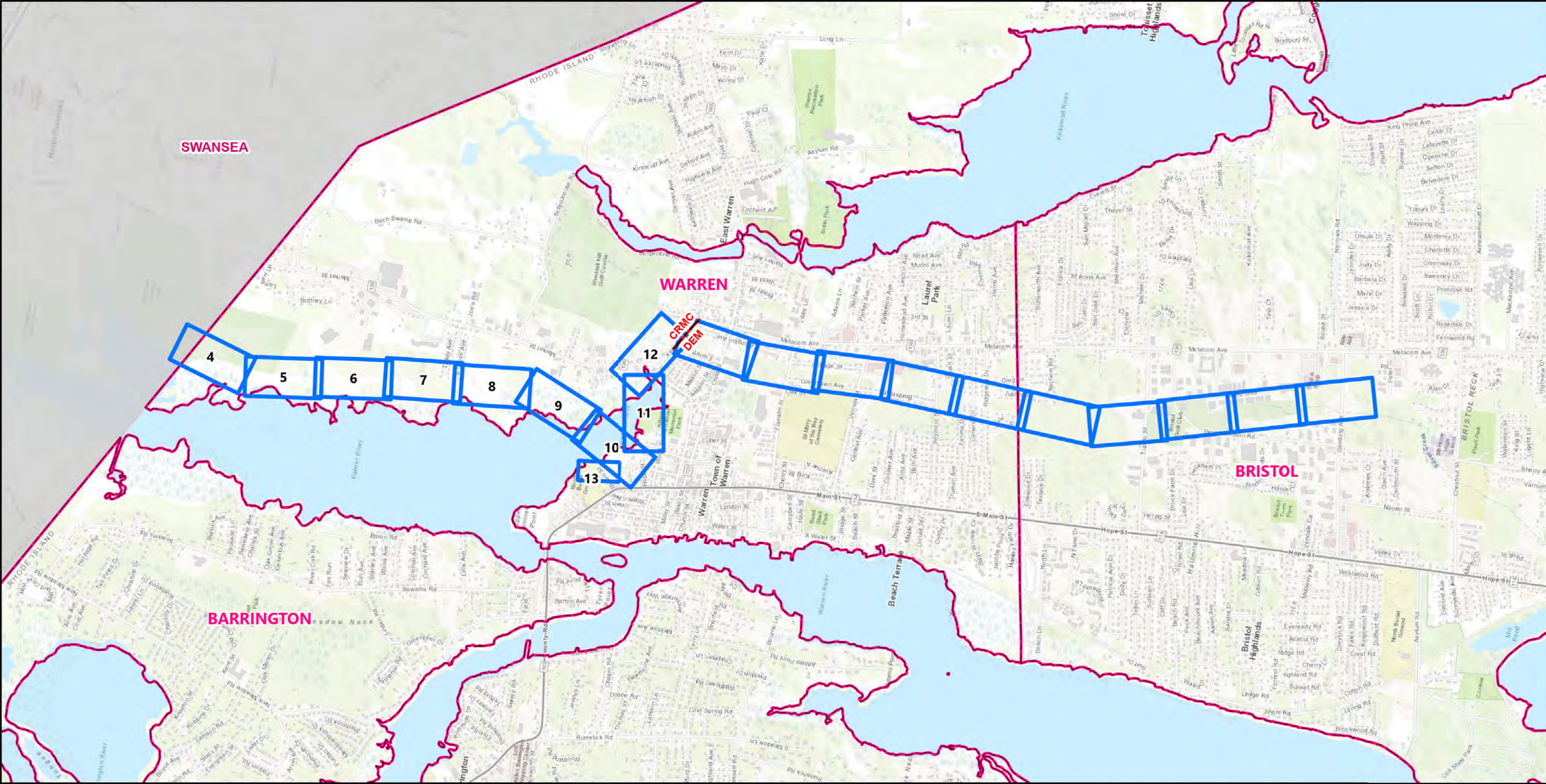
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Source: RIGIS, RI Energy, VHB



Revised: 2/5/2025
Date: 11/15/2024





- Wetland Jurisdiction Boundary
- Page Index
- Town Boundary

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

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Bristol and Warren, RI

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Revised: 2/5/2025
Date: 11/15/2024

Source: MassGIS, RIGIS, National Grid, VHB


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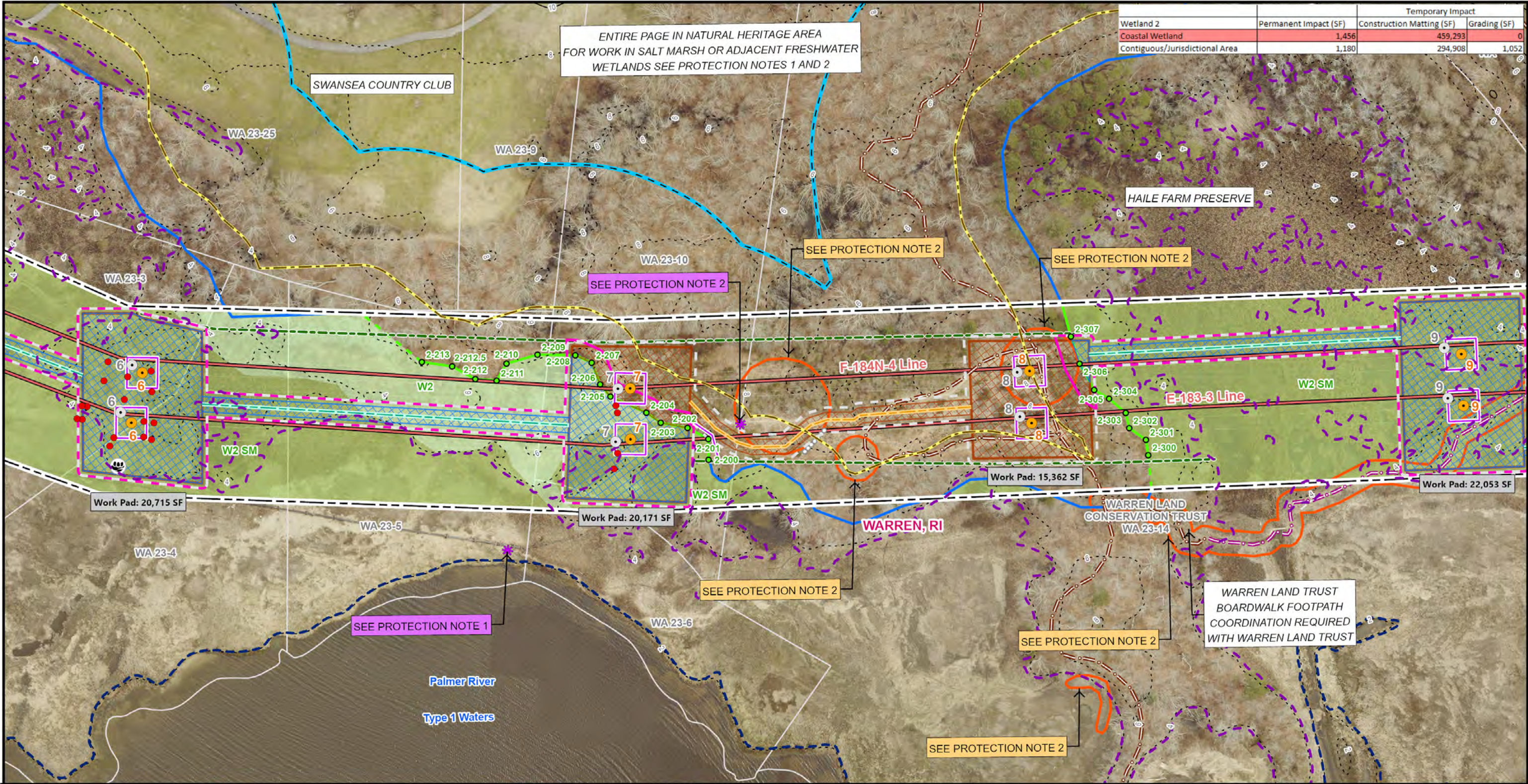
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- Legend:**
- Existing Structure:** Red circle with a black dot.
 - Proposed Structures:** Orange circle with a black dot.
 - Structure to be Replaced:** Blue circle with a black dot.
 - Structure to be Removed:** Green circle with a black dot.
 - Existing Distribution Pole:** Yellow circle with a black dot.
 - Existing Guy Wire Anchor:** Red circle with a black dot.
 - Existing Transmission Line:** Brown line.
 - Proposed Transmission Line:** Orange line.
 - Overhead Line:** Black line.
 - Approximate Right-of-Way:** Dashed black line.
 - Access Road (16' wide):** Black line.
 - Temporary Upland Matting Access:** Orange line.
 - Temporary Wetland Matting Access:** Blue line.
 - Surface with Crushed Stone then Revegetate Access:** Orange line.
 - Existing Gravel/Paved Driveway Access:** Pink line.
 - Existing Access - Refresh with Crushed Stone:** Black line.
 - Work Pad Type:**
 - Temporary Upland Matting: Orange rectangle.
 - Temporary Wetland Matting: Blue rectangle.
 - Surface with crushed stone then revegetate: Orange rectangle.
 - Work Pad/Pull Pad: Brown rectangle.
 - Limit of Disturbance (LOD): Pink rectangle.
 - Permit Area: Green rectangle.
 - Permit Area/LOD: Green rectangle.
 - Osprey Nest:** Black circle with a white dot.
 - RIPHP Species:** Purple star.
 - RIDEM Natural Heritage Area Polygon:** Green rectangle.
 - Rare Species from WLT:** Green rectangle.
 - Existing Tree Line:** Green line.
 - Proposed Tree Line:** Green line.
 - ASSF:** Green line.
 - Proposed Jamie's Park Grass Swale:** Orange line.
 - Potential Quantitative Basin Location:** Blue line.
 - Watercourse (Non Delineated):** Blue line.
 - Buffer Zone:** Blue line.
 - Jurisdictional Area:** Blue line.
 - 200' Contiguous Area:** Blue line.
 - CRMC 50' Setback:** Blue line.
 - Approximate Edge of Coastal Feature:** Blue line.
 - Wetland Flag:** Green circle.
 - Approximate Wetland Edge:** Green line.
 - Delineated Wetland Edge:** Green line.
 - Freshwater Wetland:** Green line.
 - Salt Marsh:** Green line.
 - Tree Clearing Area:** Yellow rectangle.
 - Mean High Water (2.12 feet) - Section 404/10 Boundary:** Blue line.
 - Highest Astronomical Tide (3.78 feet):** Blue line.
 - 1% Annual Chance Coastal SFHA:** Blue line.
 - Gate:** Blue square.
 - Culvert:** Orange circle.
 - Sewer Manhole:** Yellow circle.
 - Catch Basin With SiltSak:** Yellow circle.
 - Stabilized Construction Exit:** Orange rectangle.
 - Erosion Control:** Green rectangle.
 - Stone Wall:** Green rectangle.
 - Fence:** Black line.
 - Guardrail:** Black line.
 - 2-ft Contours:** Dashed black line.
 - 10-ft Contours:** Dashed black line.
 - Hiking Trail:** Brown line.
 - Boardwalk:** Pink line.
 - Wetland Jurisdiction Boundary:** Red line.
 - Fee Parcel Boundary:** Pink line.
 - Parcel Boundary:** Black line.
 - Town Boundary:** Pink line.
- Scale:** 0 to 100 Feet. **North Arrow:** Points North.

1



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Wetland 2	Temporary Impact		
	Permanent Impact (SF)	Construction Matting (SF)	Grading (SF)
Coastal Wetland	1,456	459,293	0
Contiguous/Jurisdictional Area	1,180	294,908	1,052



Existing Structure

Proposed Structures

Structure to be Replaced

Structure to be Removed

Existing Distribution Pole

Existing Guy Wire Anchor

Existing Transmission Line

Proposed Transmission Line

Overhead Line

Approximate Right-of-Way

Access Road (16' wide)

Temporary Upland Matting Access

Temporary Wetland Matting Access

Surface with Crushed Stone then Revegetate Access

Existing Gravel/Paved Driveway Access

Existing Access - Refresh with Crushed Stone

Work Pad Type

Temporary Upland Matting

Temporary Wetland Matting

Surface with crushed stone then revegetate

Work Pad/Pull Pad

Limit of Disturbance (LOD)

Permit Area

Permit Area/LOD

Osprey Nest

RINHP Species

RIDEM Natural Heritage Area Polygon

Rare Species from WLT

Existing Tree Line

Proposed Tree Line

ASSF

Proposed Jamie's Park Grass Swale

Potential Dewatering Basin Location

Watercourse (Non Delineated)

Buffer Zone

Jurisdictional Area

200' Contiguous Area

CRMC 50' Setback

Approximate Edge of Coastal Feature

Wetland Flag

Approximate Wetland Edge

Delineated Wetland Edge

Freshwater Wetland

Salt Marsh

Tree Clearing Area

Mean High Water (2.12 feet) - Section 404/10 Boundary

Highest Astronomical Tide (3.78 feet)

1% Annual Chance Coastal SFHA

Gate

Culvert

Sewer Manhole

Catch Basin With Siltak

Stabilized Construction Exit

Erosion Control

Stone Wall

Fence

Guardrail

2-ft Contours

10-ft Contours

Hiking Trail

Boardwalk

Wetland Jurisdiction Boundary

Fee Parcel Boundary

Parcel Boundary

Town Boundary

North Arrow

Scale: 1:1,200

0 25 50 100 Feet

E183-3 and F184N-4/5 115kV Transmission Lines

Asset Condition Refurbishment Project

Site Access and BMP Plan

Warren, RI

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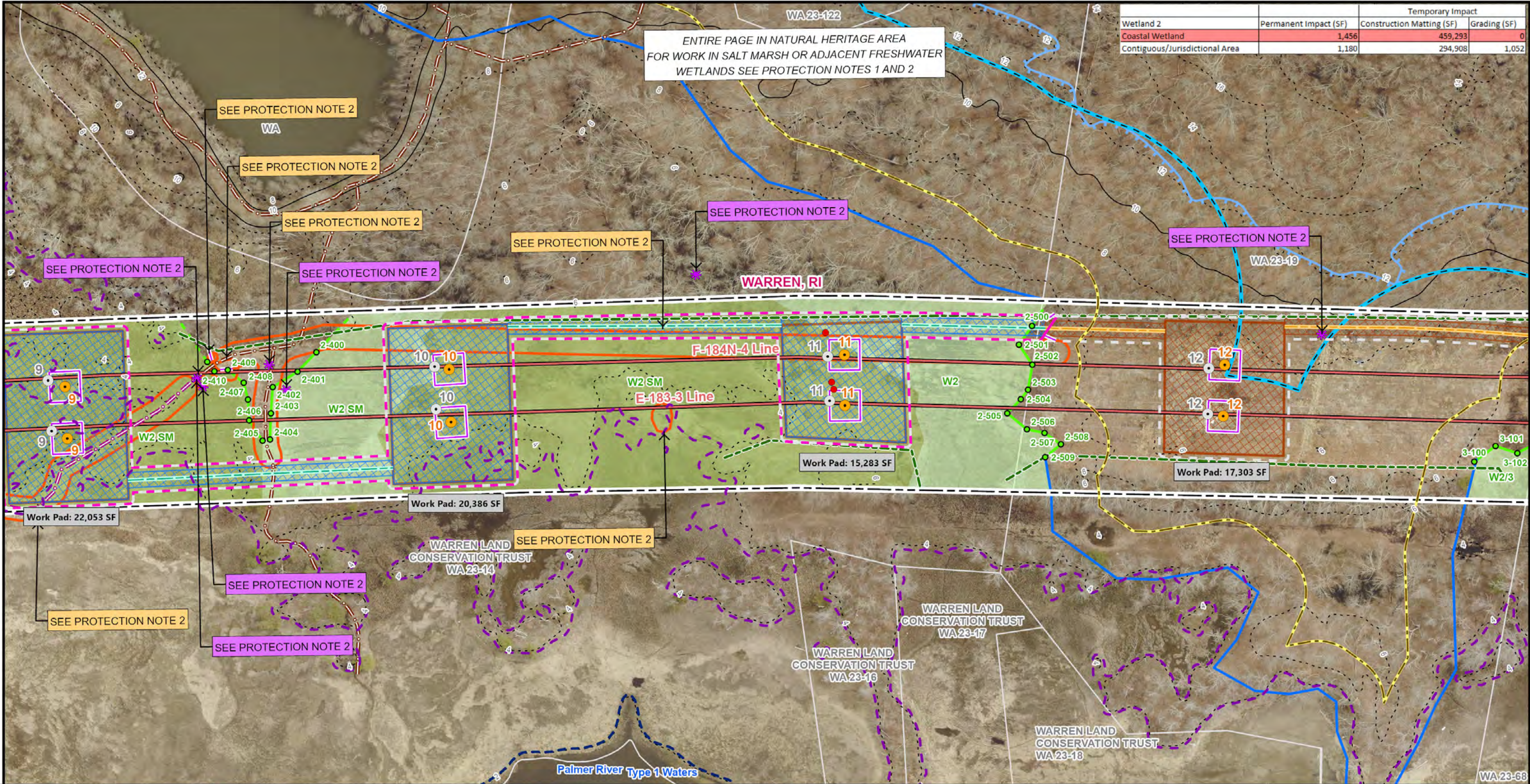
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Date: 11/15/2024

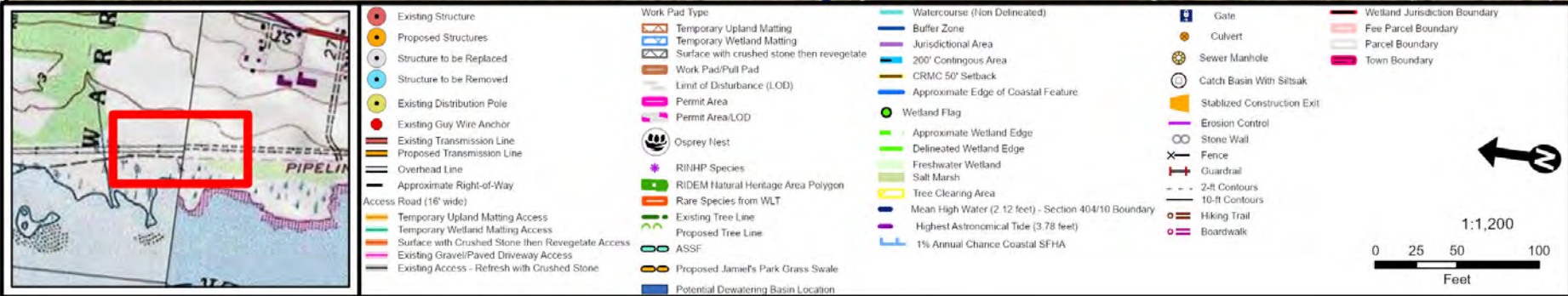
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vhb



Wetland 2	Temporary Impact		
	Permanent Impact (SF)	Construction Matting (SF)	Grading (SF)
Coastal Wetland	1,456	459,293	0
Contiguous/Jurisdictional Area	1,180	294,908	1,052



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

Site Access and BMP Plan
Warren, RI

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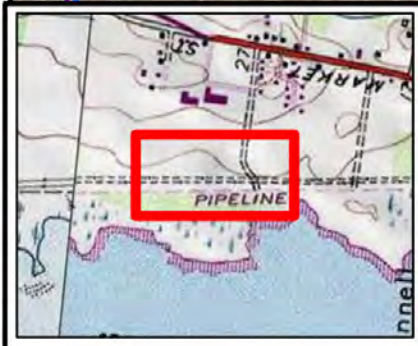
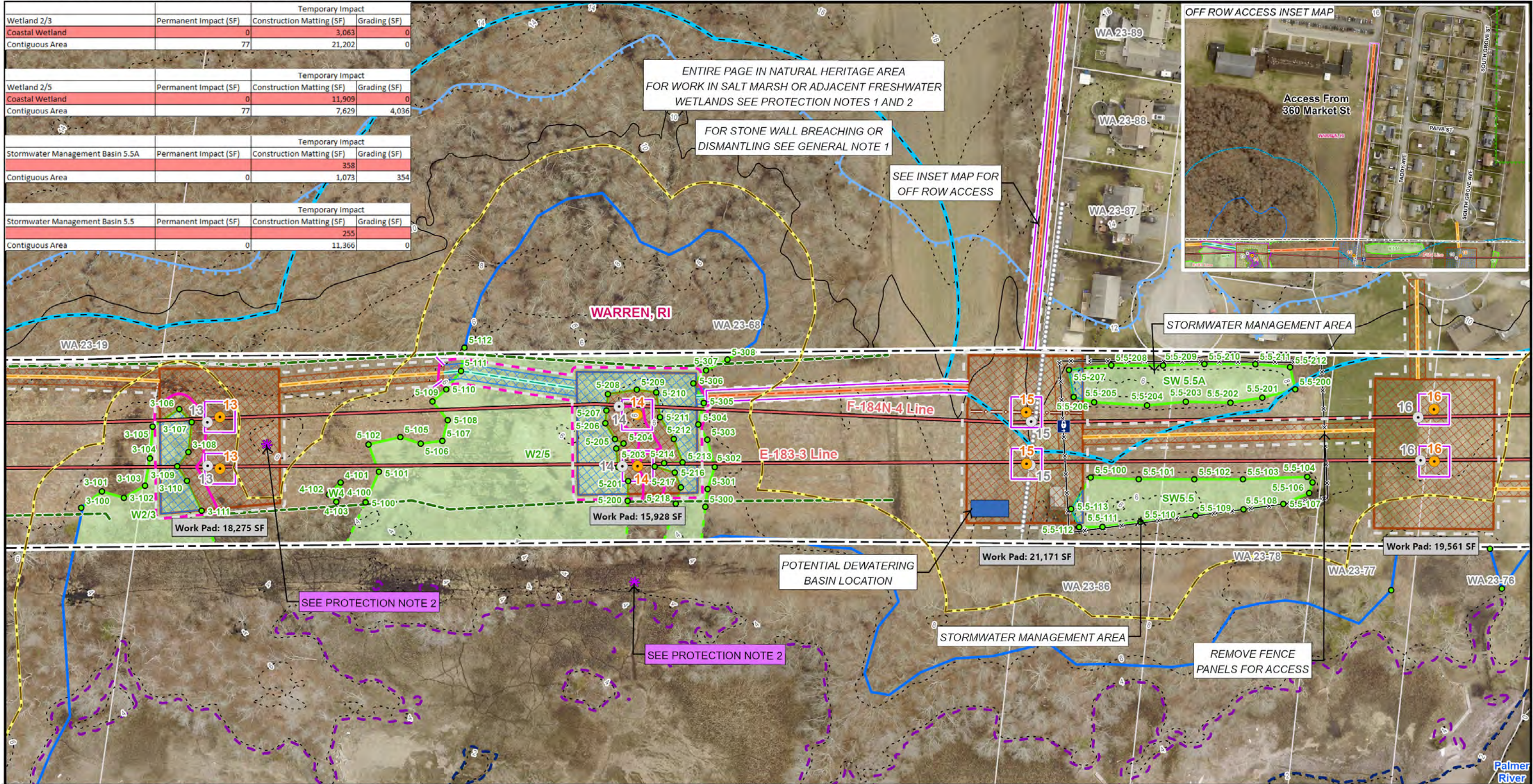
Revised: 2/5/2025
Date: 11/15/2024



		Temporary Impact	
Wetland 2/5	Permanent Impact (SF)	Construction Matting (SF)	Grading (SF)
Coastal Wetland	0	11,909	0
Contiguous Area	77	7,629	4,036

		Temporary Impact	
Stormwater Management Basin 5.5A	Permanent Impact (SF)	Construction Matting (SF)	Grading (SF)
		358	
Contiguous Area	0	1,073	354

		Temporary Impact	
Stormwater Management Basin 5.5	Permanent Impact (SF)	Construction Matting (SF)	Grading (SF)
		255	
Contiguous Area	0	11,366	0



-
- Legend**
- | | | | | |
|--|---|---|---|--|
| <ul style="list-style-type: none"> Existing Structure Proposed Structures Structure to be Replaced Structure to be Removed Existing Distribution Pole Existing Guy Wire Anchor Existing Transmission Line Proposed Transmission Line Overhead Line Approximate Right-of-Way Access Road (16' wide) Temporary Upland Matting Access Temporary Wetland Matting Access Surface with Crushed Stone then Revegetate Access Existing Gravel/Paved Driveway Access Existing Access - Refresh with Crushed Stone | <ul style="list-style-type: none"> Work Pad Type Temporary Upland Matting Temporary Wetland Matting Surface with crushed stone then revegetate Work Pad/Pull Pad Limit of Disturbance (LOD) Permit Area Permit Area/LOD Osprey Nest RHNHP Species RIDEM Natural Heritage Area Polygon Rare Species from WLT Existing Tree Line Proposed Tree Line ASSF Proposed Jamie's Park Grass Swale Potential Dewatering Basin Location | <ul style="list-style-type: none"> Watercourse (Non Delineated) Buffer Zone Jurisdictional Area 200' Contingous Area CRMC 50' Setback Approximate Edge of Coastal Feature Wetland Flag Approximate Wetland Edge Delineated Wetland Edge Freshwater Wetland Salt Marsh Tree Clearing Area Mean High Water (2.12 feet) - Section 404/10 Boundary Highest Astronomical Tide (3.78 feet) 1% Annual Chance Coastal SFHA | <ul style="list-style-type: none"> Gate Culvert Sewer Manhole Catch Basin With Siltask Stabilized Construction Exit Erosion Control Stone Wall Fence Guardrail 2-ft Contours 10-ft Contours Hiking Trail Boardwalk | <ul style="list-style-type: none"> Wetland Jurisdiction Boundary Fee Parcel Boundary Parcel Boundary Town Boundary |
|--|---|---|---|--|
- Scale: 0 25 50 100 Feet
- North Arrow
- 1:1,200

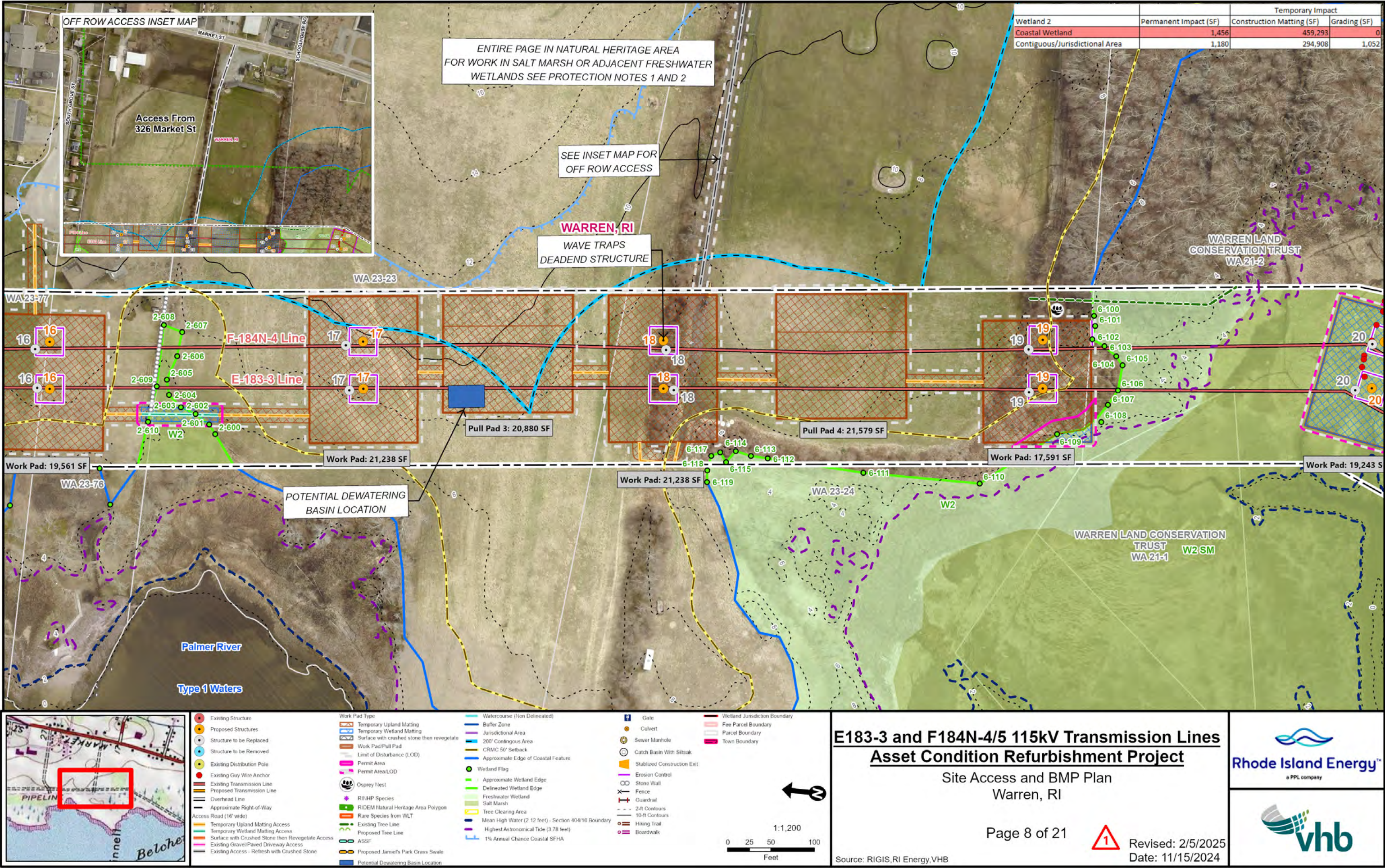
Site Access and BMP Plan Warren, RI

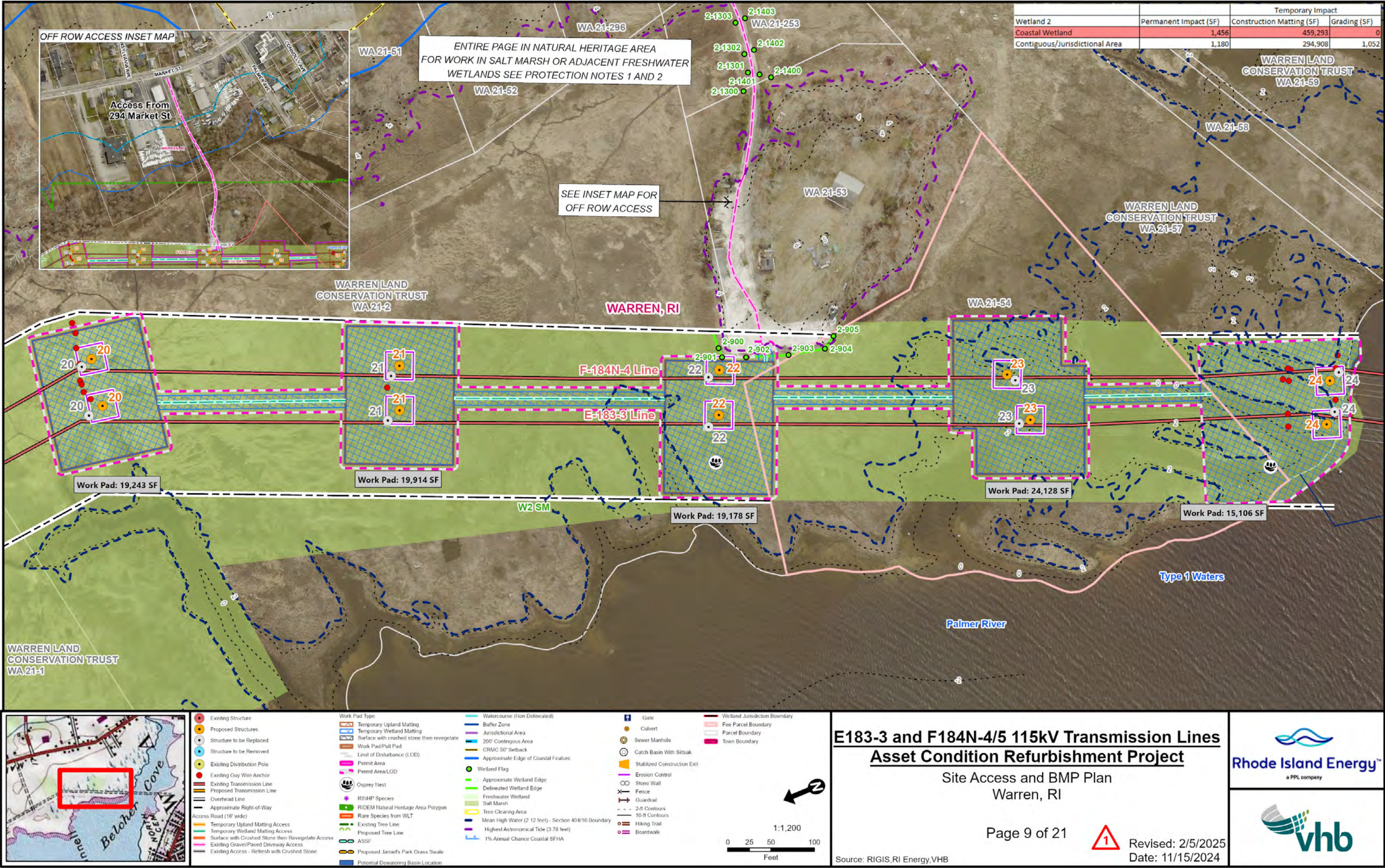
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1 Revised: 2/5/2025
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E183-3 and F184N-4/5 115kV Transmission Lines Asset Condition Refurbishment Project

Site Access and BMP Plan
Warren, RI

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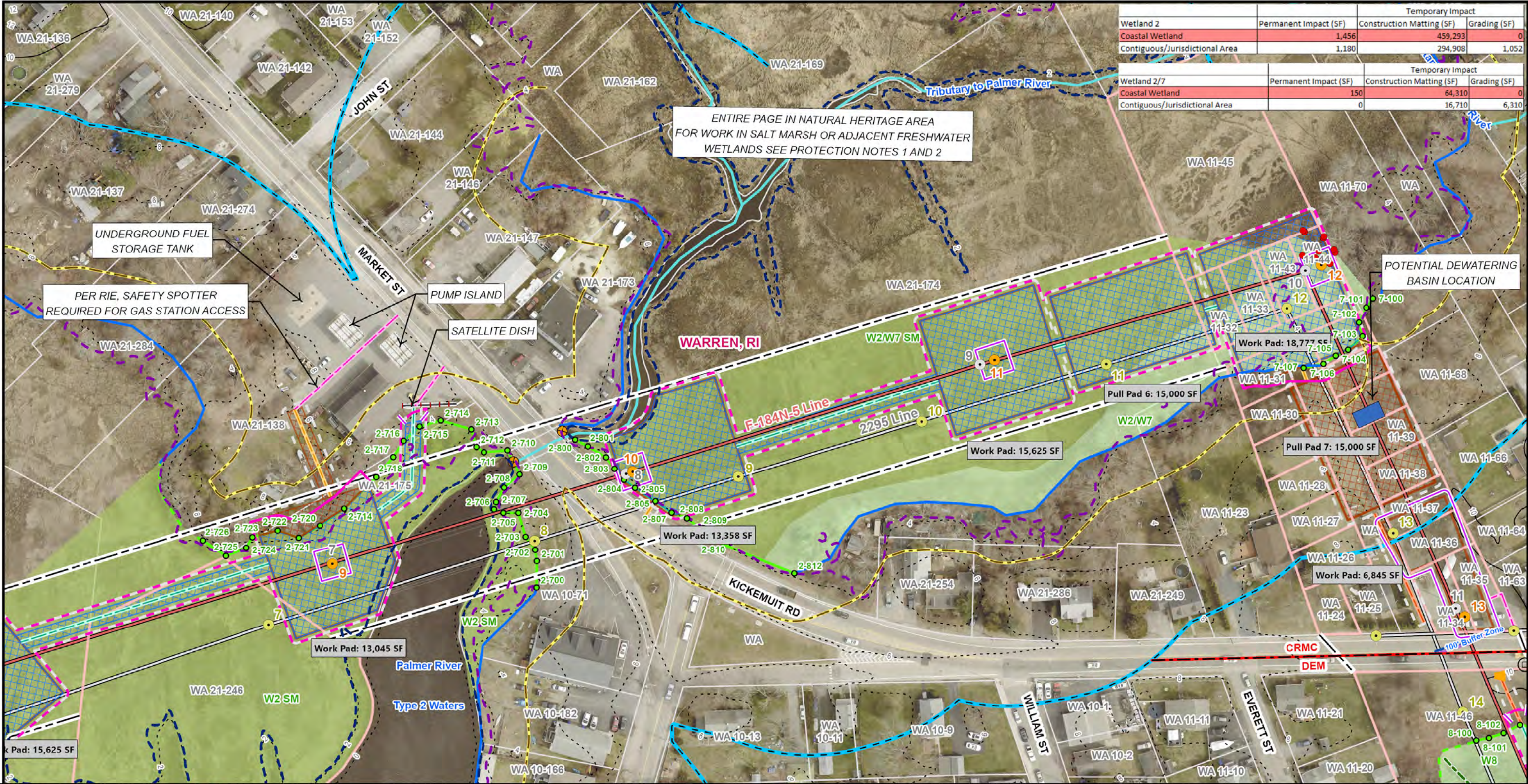
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- Legend**
- | | | | | |
|---|--|---|------------------------------|-------------------------------|
| Existing Structure | Work Pad Type | Watercourse (Not Delineated) | Gate | Wetland Jurisdiction Boundary |
| Proposed Structures | Temporary Upland Matting | Buffer Zone | Culvert | Fee Parcel Boundary |
| Structure to be Replaced | Temporary Wetland Matting | Jurisdictional Area | Sewer Manhole | Parcel Boundary |
| Structure to be Removed | Surface with crushed stone then revegetate | 200' Contiguous Area | Catch Basin With Sitsak | Town Boundary |
| Existing Distribution Pole | Work Pad/Pull Pad | CRM 50' Setback | Stabilized Construction Exit | |
| Existing Guy Wire Anchor | Limit of Disturbance (LOD) | Approximate Edge of Coastal Feature | Erosion Control | |
| Existing Transmission Line | Permit Area | Wetland Flag | Stone Wall | |
| Proposed Transmission Line | Permit Area/LOD | Approximate Wetland Edge | Fence | |
| Overhead Line | Osprey Nest | Delineated Wetland Edge | Guardrail | |
| Approximate Right-of-Way | RINHP Species | Freshwater Wetland | 2-ft Contours | |
| Access Road (16' wide) | RIDEM Natural Heritage Area Polygon | Salt Marsh | 10-ft Contours | |
| Temporary Upland Matting Access | Rare Species from WLT | Tree Clearing Area | Hiking Trail | |
| Temporary Wetland Matting Access | Existing Tree Line | Mean High Water (2.12 feet) - Section 404/10 Boundary | Boardwalk | |
| Surface with Crushed Stone then Revegetate Access | Proposed Tree Line | Highest Astronomical Tide (3.78 feet) | | |
| Existing Gravel/Paved Driveway Access | ASSF | 1% Annual Chance Coastal SFHA | | |
| Existing Access - Refresh with Crushed Stone | Proposed Jamie's Park Grass Swale | | | |
| | Potential Deposition Basin Location | | | |
- Scale: 1:1,200
0 25 50 100 Feet
- North Arrow

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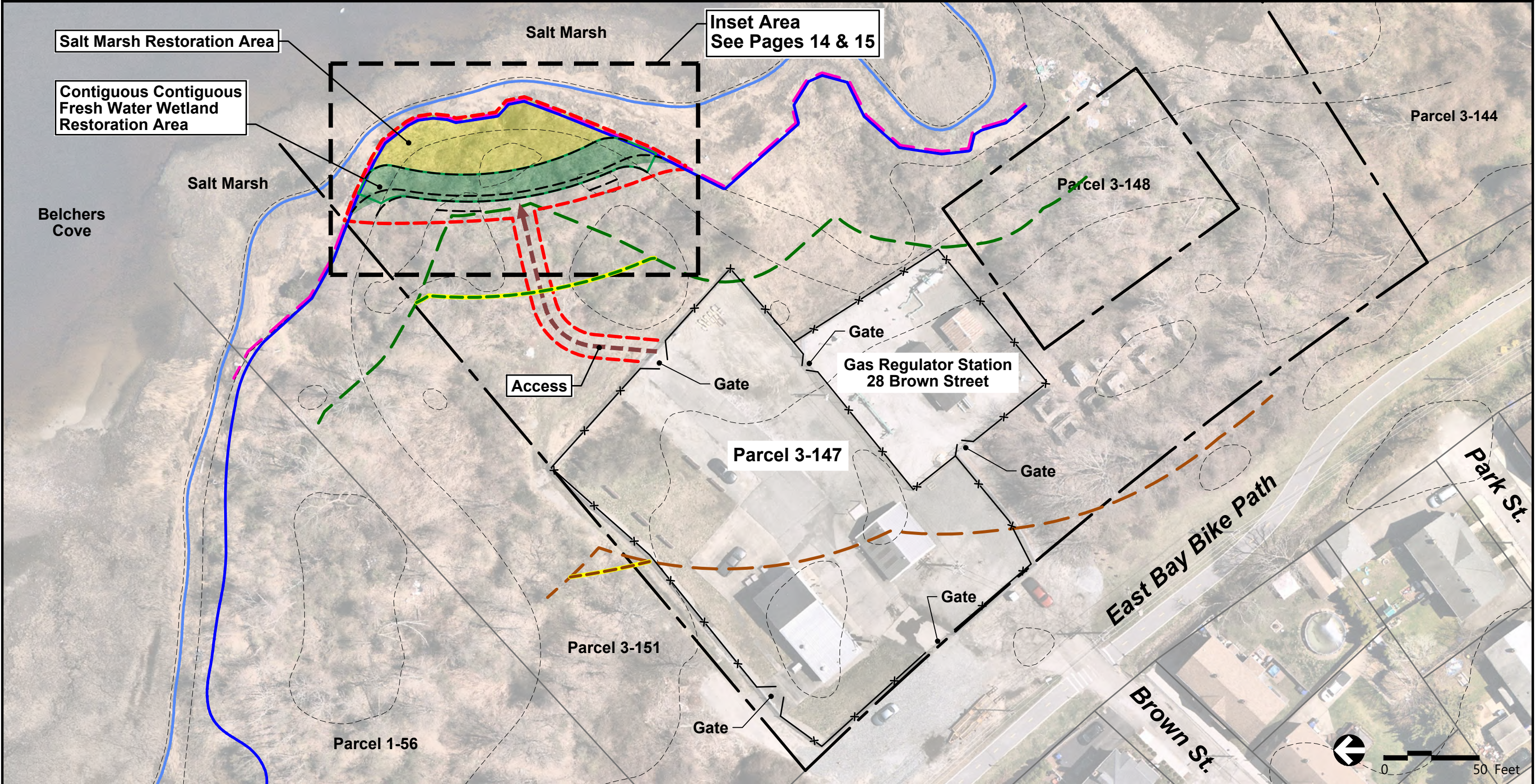






E183-3 and F184N-4/5 115kV Transmission Lines Asset Condition Refurbishment Project

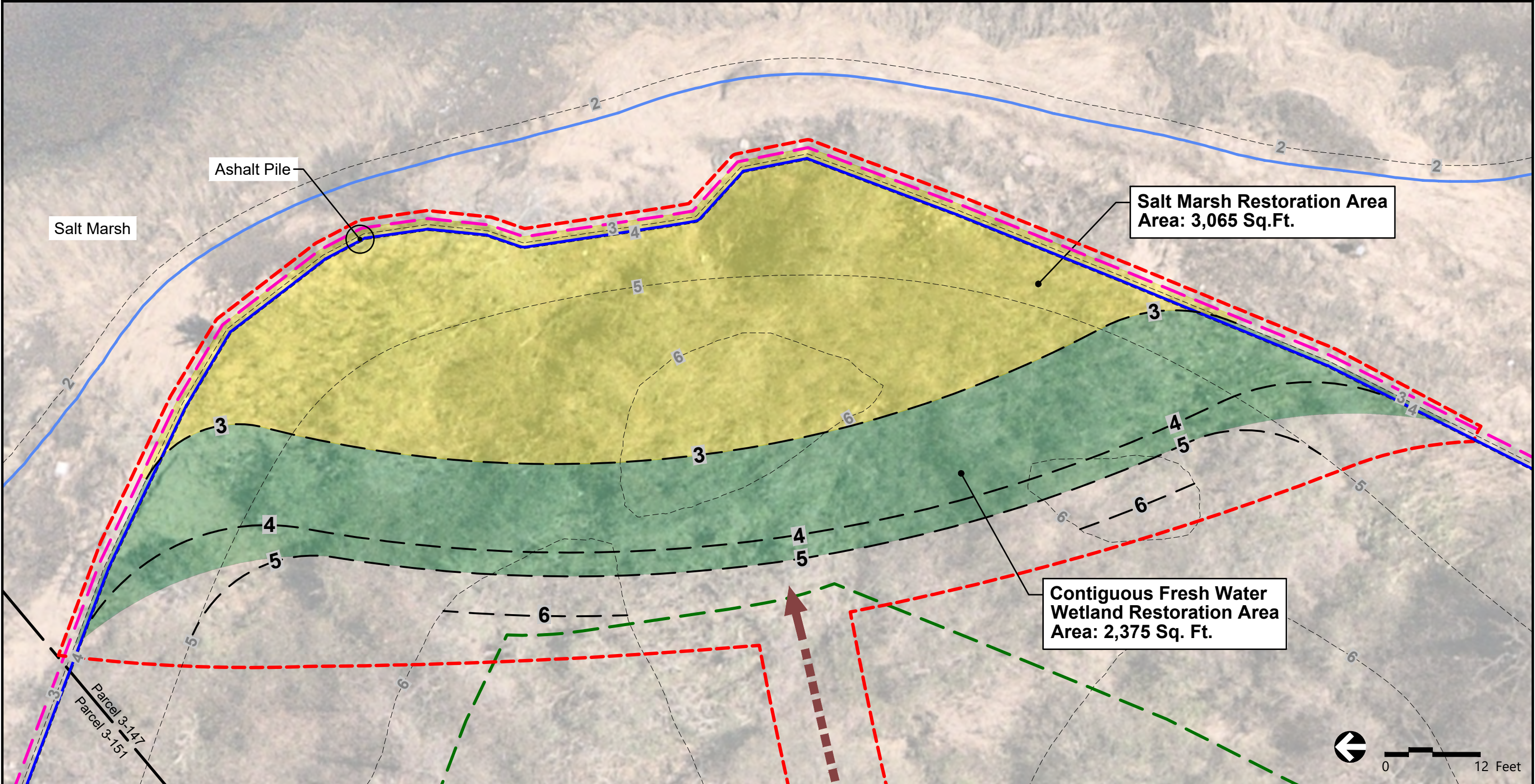
Site Access and BMP Plan
Warren, RI





<ul style="list-style-type: none">Chain Link FenceEdge of Existing FillMean High Water (MHW)=2.12'High Astronomical Tide (HAT)=3.78'CRMC 50' Set BackCRMC 200' Contiguous AreaSite Property Line2 Foot Contours (2011 Lidar)	<ul style="list-style-type: none">Limit of Disturbance/ Temporary Compost Filter SockAccessProposed ContourProposed CRMC 50' Set BackProposed CRMC 200' Contiguous AreaApproximate Salt Marsh Restoration AreaApproximate Contiguous Freshwater Wetland Restoration Area	<p>NOTES:</p> <ol style="list-style-type: none">The entire project area is within Coastal SFHA AE Zone (BFE 13).The entire project area is within the 200-ft Contiguous Area
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<p>E183-3 and F184N-4/5 115kV Transmission Lines</p> <p>Asset Condition Refurbishment Project</p> <p>Proposed Restoration Plan Warren, RI</p> <p>Page 13 of 21</p> <p>Date: 11/01/2024</p>	<p> Rhode Island Energy™ a PPL company</p> <p></p>
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<ul style="list-style-type: none">Chain Link FenceEdge of Existing FillMean High Water (MHW)=2.12'High Astronomical Tide (HAT)=3.78'CRMC 50' Set BackSite Property Line2 Foot Contours (2011 Lidar)	<ul style="list-style-type: none">Limit of Disturbance/ Temporary Compost Filter SockAccessProposed ContourApproximate Salt Marsh Restoration AreaApproximate Contiguous Freshwater Wetland Restoration Area	<p>NOTES:</p> <ol style="list-style-type: none">The entire project area is within Coastal SFHA AE Zone (BFE 13).The entire project area is within the 200-ft Contiguous Area
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E183-3 and F184N-4/5 115kV Transmission Lines

Asset Condition Refurbishment Project

Proposed Restoration Plan
Warren, RI

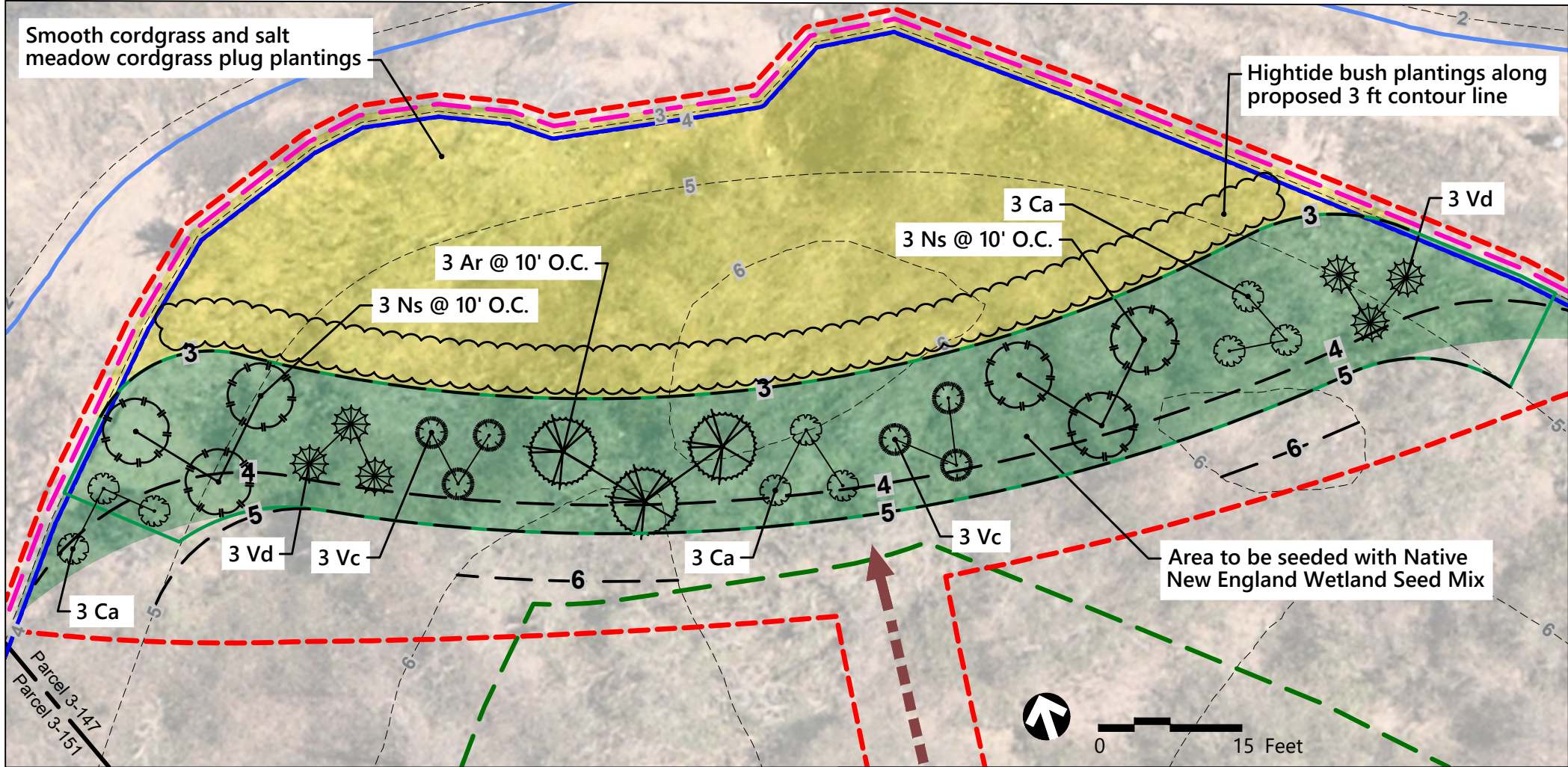
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SEEDING NOTES

NEW ENGLAND WETMIX TO BE USED WITHIN CONTIGUOUS FRESHWATER WETLAND RESTORATION AREA.

From New England Wetland Plants, Inc. Amherst, Massachusetts



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 (*Symphotrichum novae-angliae*), Rattlesnake Mannagrass (*Glyceria canadensis*), Purple-Stem Aster (*Symphotrichum puniceum*), Soft-Stemmed Bulrush (*Schoenoplectus tabernaemontani*), Blueflag (*Iris versicolor*), Swamp Milkweed (*Asclepias incarnata*), and Allegheny Monkey-Flower (*Mimulus ringens*).

Planting Schedule

Trees	Scientific Name	Common Name	Height	Quantity
Ns	Nyssa sylvatica	 Black tupelo	6'	6
Ar	Acer rubrum	 Red Maple	6'	3

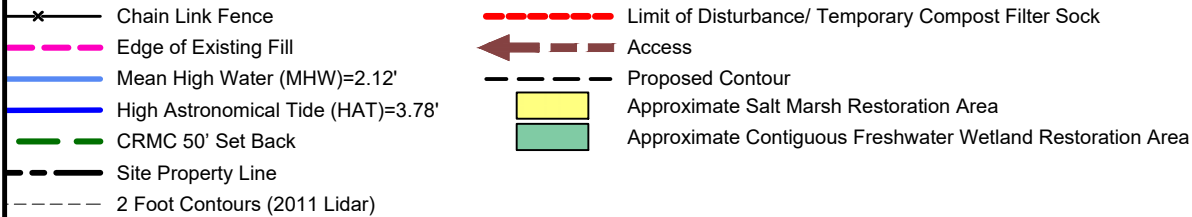
Shrubs	Scientific Name	Common Name	Approx. Height / Pot Size	Quantity
Vd	Viburnum dentatum	 Arrowwood viburnum	18"-24"/ 3 Gallon	6
Vc	Vaccinium corymbosum	 Highbush blueberry	18"-24"/ 3 Gallon	6
Ca	Cornus amomum	 Silky dogwood	18"-24"/ 3 Gallon	9

RESTORATION PLANTING REQUIREMENTS

- A. Immediately Prior to the commencement of restoration involving soil removal, install a continuous uninterrupted line of staked compost filter sock (CFS)/ Silt Soxx between the undisturbed wetland and the edge of existing fill material to be removed.
- B. Remove all fill in the area noted above down to proposed grade. This should be apparent when the layer of peat or a darker loam under this fill is encountered. Where no peat is found the area will be over excavated 12 inches then supplemented with 12 inches of medium to fine sand mixed with organics. All fill material which is removed must be deposited outside any and all wetlands.
- C. Proposed grades in salt marsh must be stabilized with salt marsh species plugs planted 2-3 feet on center. Proposed grades in contiguous freshwater wetland must be stabilized with a native New England wetland conservation seed mix and by mulching all disturbed area with straw.
- D. Plant the contiguous freshwater wetland restoration area with trees and shrubs per the table noted below. Balled and burlapped or transplanted tree species

- must be planted in an interspersed fashion in a zig-zag line, 10 feet on center. Trees shall be a minimum of 6 feet tall after planting. Shrubs shall be balled and burlapped or transplanted material and be a minimum of 4 feet tall after planting throughout the restored area. All shrubs shall be placed 10 feet on center in the restored area defined above.
- E. If any or all of the required plantings fail to survive at least one full growing season from the time they have been planted, they shall be replaced until such time that survival is maintained over one full growing season.
- F. All disturbed areas in the 200-foot Contiguous Area must be allowed to revegetate to a natural wild state.
- G. Upon stabilization of all disturbed areas, all erosion and sedimentation controls must be removed from the salt marsh restoration area and contiguous freshwater wetland restoration area and the 200-foot Contiguous Area prior to the removal of the controls, all accumulated sediment must be removed to a suitable upland area.
- H. Allow the restored and replanted area to revert to a natural wild state.

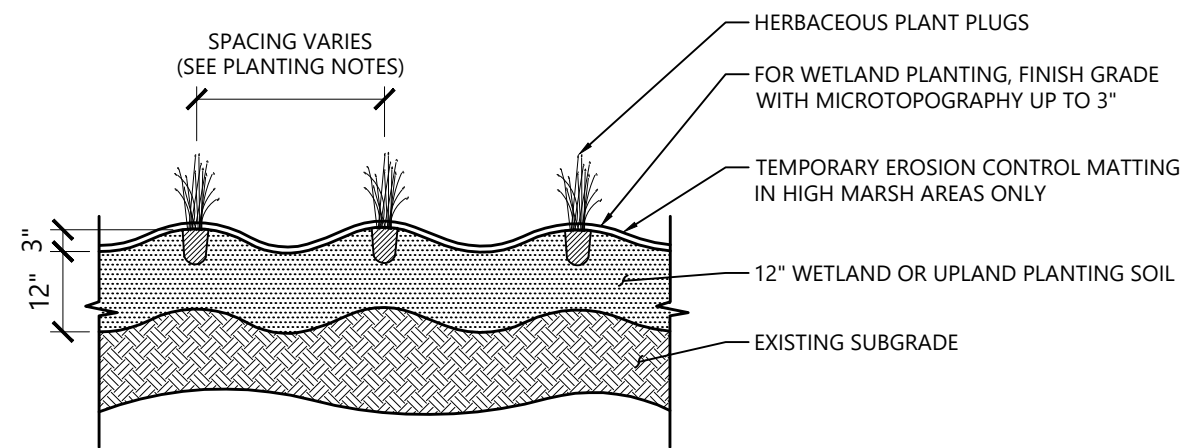
- NOTES:
1. The entire project area is within Coastal SFHA AE Zone (BFE 13).
 2. The entire project area is within the 200-ft Contiguous Area



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

Restoration Planting Plan
Warren, RI





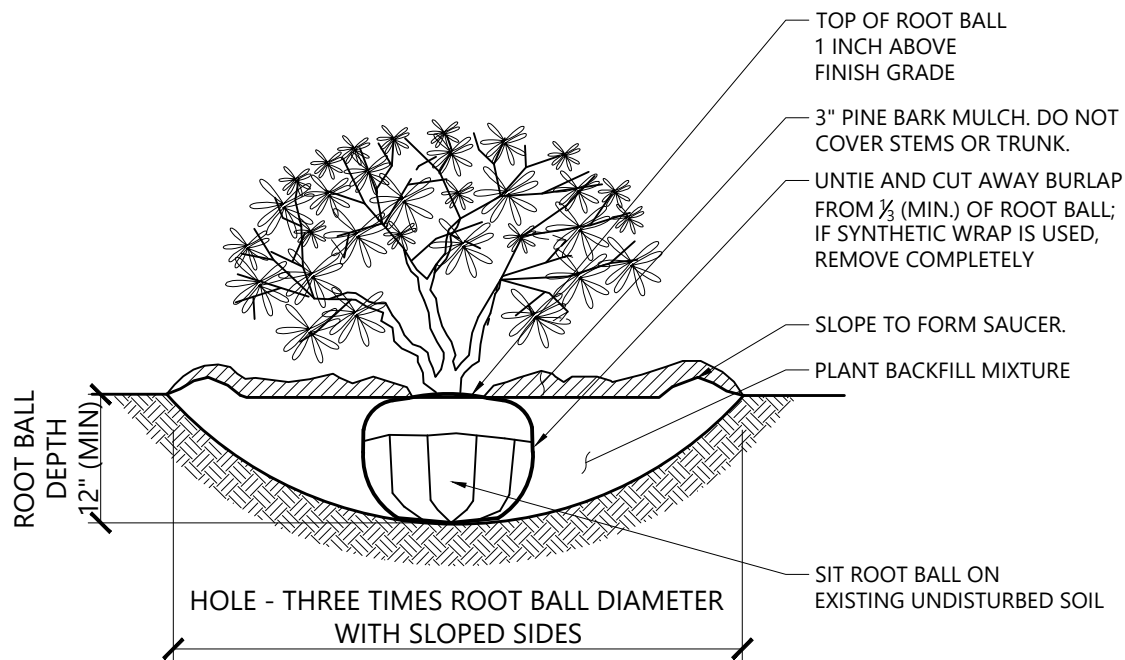
NOTE:
FOR BROADLEAF FLOOD PLAIN AND HIGH MARSH, SEED AREA IN ADDITION TO INSTALLING PLUGS.

Herbaceous Plant Plugs

10/24

N.T.S.

Source: VHB



NOTE:
LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

Shrub Planting

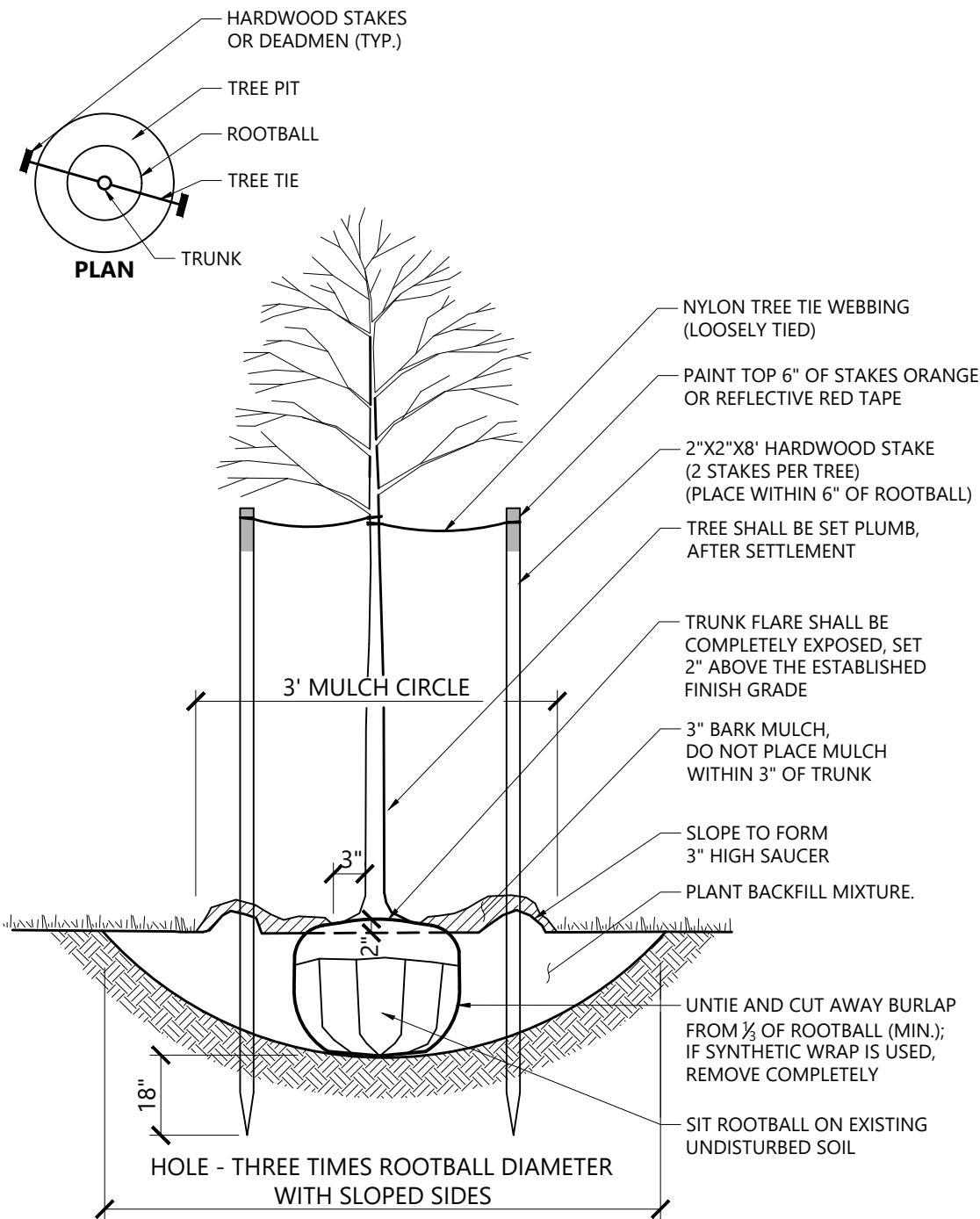
1/16

N.T.S.

Source: VHB

REV

LD_600



Tree Planting

9/21

N.T.S.

Source: VHB

REV

LD_602

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

Restoration Planting Details
Warren, RI

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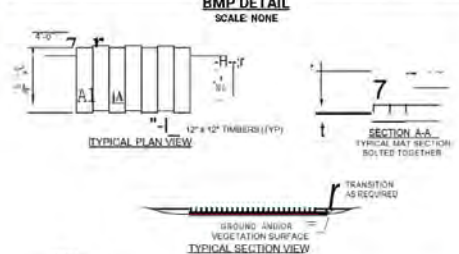
Doc. No. EG-303
Page: 7-19 Rev. No. 4
Date 05/25/22

Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE




NOTES:

1. TO BE INSTALLED IF NECESSARY TO PREVENT SLIDING TO ADJACENT STRUCTURES.

2. THIS DETAIL SHOWS TYPICAL DIMENSIONS. SOME CONTRACTOR'S CONSTRUCTION MATS ARE DIMENSIONALLY DIFFERENT FROM WHAT IS SHOWN HERE.

3. DEPENDENT ON SITE CONDITIONS, MULTIPLE LAYERS OF CONSTRUCTION MATS MAY BE INSTALLED.

BMP PICTURE



CM-3
CONSTRUCTION MAT LAYOUT
(WITH TRANSITION)

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Detail #1

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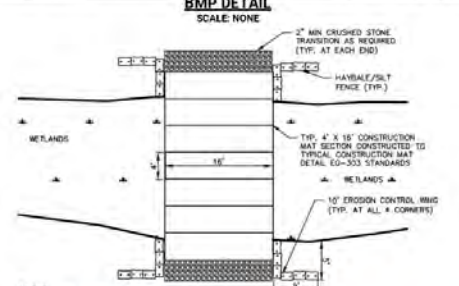
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Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE




NOTES:

1. ADD FILTER FABRIC AS NEEDED UNDER STONE TRANSITION RAMP.

2. ALL MEASUREMENTS AND LOCATIONS ARE APPROXIMATE.

BMP PICTURE



CM-4
CONSTRUCTION MAT LAYOUT
(WITH TRANSITION AND BMPs)

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Detail #2

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Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP PICTURE 1



BMP PICTURE 2



CM-12
EXAMPLE OF CONSTRUCTION
MAT ANCHORING (2 OF 2)

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Detail #3

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

Details
Bristol and Warren, RI

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Source: RIGIS, National Grid, VHB

Revised: 2/5/2025
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Rhode Island Energy
A Connecticut Company

**EG-303 Appendix 5
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Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL 1

SCALE NONE

TYPICAL PLAN VIEW

NOTES:

1. EXAMPLES OF ANCHORING ONLY. MATTING CONTRACTOR SHALL PROPOSE THE METHOD, IF ANCHORING BASED ON FIELD CONDITIONS.
2. ANCHORING METHOD TO BE APPROVED BY THE ENVIRONMENTAL/GEOTECHNICAL/GEOPHYSICAL SCIENTIST AND TRANSMISSION LINE CONSTRUCTION SUPERVISOR.

BMP DETAIL 2

NOTES:

1. TYPICAL HELICAL ANCHOR AND CABLE CONFIGURATION FOR MAT CONTAINMENT BY FLOODPLAINS/LAND SUBJECT TO FLOODING.
2. TYPICAL POINTS OF ATTACHMENT HEAVY STAPLES, EYE BOLTS OR OTHER SUITABLE HARDWARE TO SECURE ATTACHMENT OF MAT TO LINEAR CABLE. IF CHAIN ROCKETS ARE PRESENT IN THE MATS CABLE OR ROPE CAN BE LOOPED THROUGH ROCKS.

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CM-12
**EXAMPLE OF CONSTRUCTION
MAT ANCHORING (1 OF 2)**

3 Star Construction, LLC, Inc. 05/25/2022

Detail #4

Rhode Island Energy
ENERGY SERVICES

EG-303 Appendix 5
BMP Details

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Rhode Island Energy
ENERGY SERVICES

Environmental Guidance

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Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL SCALE: NONE

NOTES:

1. IF MATS ARE INSTALLED IN A WETLAND AREA, INSTALL CROSSING CONTROLS TO CONTAIN MATERIAL UTILIZED IN THE MAT TRANSITIONS.

BMP PICTURE

CM-2
CONSTRUCTION MAT BRIDGE
(1 OF 2)
FIG. 5-10: BMP-05-02

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Detail #5

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		Date	05/25/22

Subject: Access, Maintenance and Construction Best Management Practices	Reference: EP No. 3 - Natural Resource Protection (Chapter 6)
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BMP PICTURE – SINGLE SPAN

SCALE: NONE

NOTES:

1. WHERE STREAM WIDTH ALLOWS, INSTALL CONSTRUCTION MATS TO SPAN THE WATERCOURSE IN ITS ENTIRETY WITHOUT STRINGER PLACEMENT IN THE WATER OR ANY RESTRICTION OF STREAM FLOW.
2. INSTALLATION OF THE CONSTRUCTION MAT BRIDGE SHALL NOT DAMAGE THE STREAM BED AND BANKS. WHERE POSSIBLE, FOOTERS SHALL BE PLACED PARALLEL TO THE TOP OF THE STREAM BANKS, WITH ACCESS MATTING PLACED ACROSS THE TOP OF THE STRINGERS DISTRIBUTING THE WEIGHT OF THE CONSTRUCTION EQUIPMENT.
3. AT STREAM CROSSINGS THAT CANNOT BE SPANNED BY A SINGLE SECTION OF CONSTRUCTION MATTING, AND WHERE PERMITS ALLOW, STRINGERS SHALL BE PLACED ATOP THE STREAM BED PARALLEL TO THE FLOW OF WATER.

CM-2
CONSTRUCTION MAT BRIDGE
 (2 OF 2)
File No. 0000000000

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Detail #6

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

Details

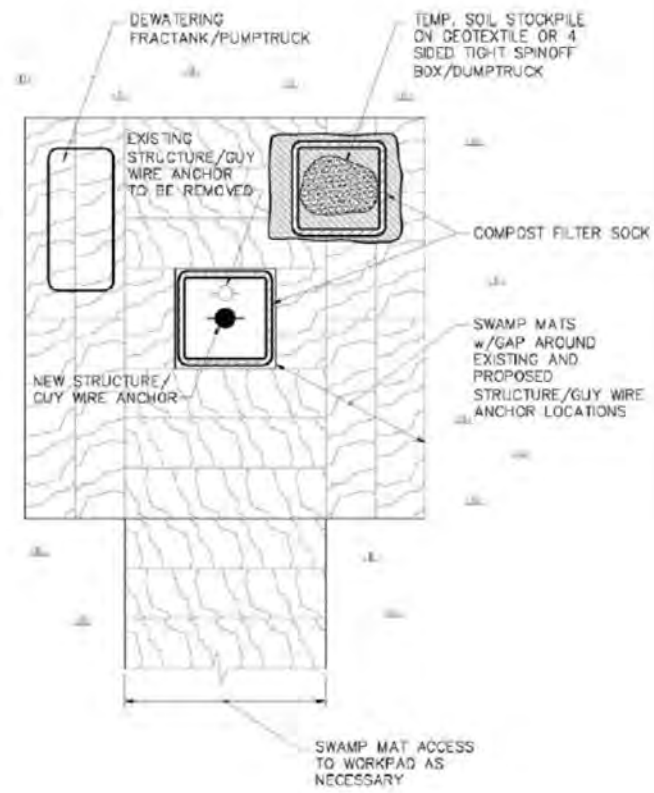
Bristol and Warren, RI

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Source: RIGIS, National Grid, VHB

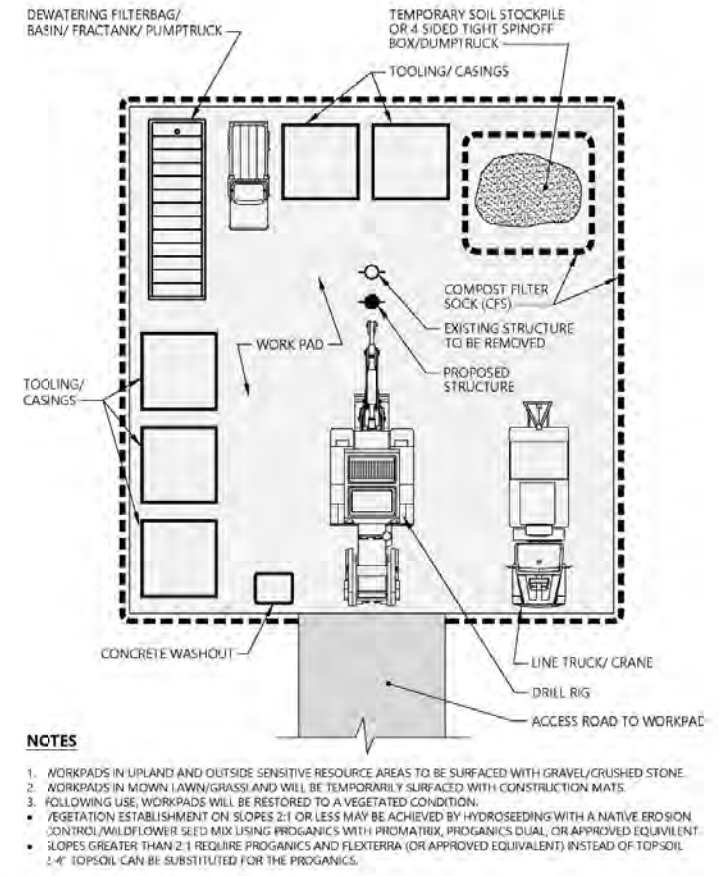
1 Revised: 2/5/2025
Date: 11/15/2024





Swamp Mat Workpad

Detail #7



- NOTES**
1. WORKPADS IN UPLAND AND OUTSIDE SENSITIVE RESOURCE AREAS TO BE SURFACED WITH GRAVEL/CRUSHED STONE.
 2. WORKPADS IN MOWN LAWN/GRASS AND WILL BE TEMPORARILY SURFACED WITH CONSTRUCTION MATS.
 3. FOLLOWING USE, WORKPADS WILL BE RESTORED TO A VEGETATED CONDITION.
 - VEGETATION ESTABLISHMENT ON SLOPES 2:1 OR LESS MAY BE ACHIEVED BY HYDROSEEDING WITH A NATIVE EROSION CONTROL/WILDFLOWER SEED MIX USING PROGANICS WITH PROMATRIX, PROGANICS DUAL, OR APPROVED EQUIVALENT.
 - SLOPES GREATER THAN 2:1 REQUIRE PROGANICS AND FLEXTERRA (OR APPROVED EQUIVALENT) INSTEAD OF TOPSOIL. 2-4" TOPSOIL CAN BE SUBSTITUTED FOR THE PROGANICS.

Typical Workpad/ Pull Pad

N.T.S. Source: VHB

Detail #8

EG-303 Appendix 5
BMP Details

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Environmental Guidance

Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

*PICTURE AND DETAIL PROVIDED BY FILTRESS LAND IMPROVEMENT SYSTEMS
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SEC-4
SILT SOXX *

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

Details
Bristol and Warren, RI

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Source: RIGIS, National Grid, VHB

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Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

BMP PICTURE

AA-12
DIRTBAG*

* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL
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Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

BMP PICTURE

AA-10
DEWATERING BASIN
(SMALL SCALE)

* PICTURE AND DETAIL PROVIDED BY OUTPAK WASHOUT
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Subject:
Access, Maintenance and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

BMP PICTURE

AA-14
OUTPAK CONCRETE WASHOUT *

* PICTURE AND DETAIL PROVIDED BY OUTPAK WASHOUT
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Detail #10

Detail #11

Detail #12

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

Details
Bristol and Warren, RI

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Source: RIGIS, National Grid, VHB

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Protection (Chapter 6)

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BMP DETAIL

NOTES:

1. STONE SIZE - USE 2" STONE (MINIMUM) TO 6" STONE (MAXIMUM)
2. LENGTH - GREATER THAN OR EQUAL TO 50 FEET
3. THICKNESS - 4"
4. WIDTH - FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. SURFACE WATER - ALL SURFACE WATER FLOWING OR OVERFLOWS TOWARD CONSTRUCTION ENTRANCES SHALL BE PAVED ACROSS ENTRANCE. IF PAVING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DETERMINE AND REPAIR OR CLEANUP OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
8. THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES/EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE ENVIRONMENTAL DEPARTMENT - SCIENTIST.
9. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE/EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDING, AND MULCHED AS NEEDED. ENTRANCE/EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND/OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE ENVIRONMENTAL DEPARTMENT - SCIENTIST AND PROPERTY LEGAL.

BMP PICTURE

CM-8
TEMPORARY CONSTRUCTION
ENTRANCE/EXIT
1 Min Temp. Construction Per Day

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Detail #13

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Environmental Guidance

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Date: 09/28/22

Subject:
Access, Management and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

NOTES:

1. PRODUCT TO BE GUTTER BUDDY OR APPROVED EQUAL BY RHODE ISLAND ENERGY ENVIRONMENTAL SCIENTIST.

BMP PICTURE

SCALE: NONE

DETAIL AND IMAGES PROVIDED BY ACF ENVIRONMENTAL
<https://acfenvironmental.com/products/inlet-protection/curb-inlets/gutter-buddy/>

AA-20B
CURB INLET GUTTER BUDDY

DETAIL AND IMAGES PROVIDED BY ACF ENVIRONMENTAL
<https://acfenvironmental.com/products/inlet-protection/curb-inlets/gutter-buddy/>

Detail #14

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Environmental Guidance

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Date: 09/28/22

Subject:
Access, Management and Construction
Best Management Practices

Reference:
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE

The diagram illustrates the installation of a silt sack into a curb opening. Key components and labels include:

- Curb Opening**: The rectangular opening in the curb.
- Curb (Detector (Type II only))**: The curb structure that houses the silt sack.
- Optional Overflow**: A side channel for excess water.
- Silt Sack**: A yellow sack used for sediment collection.
- Inset 1" Rubber For Bag Removal From Inlet (Rubber Not Included)**: A small rubber component for easy removal.
- Depth = D**: The vertical depth of the silt sack.
- Width = L**: The horizontal width of the silt sack.
- Expansion Restraint**: A device that prevents the silt sack from being pushed out by water pressure.
- Drop Inlet**: The opening where water enters the silt sack.

Dimensions are given as: $SUR \approx W \times X \approx D$.

NOTES:

1. PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY RHODE ISLAND ENERGY ENVIRONMENTAL SCIENTIST.
2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERFLOW DIMENSIONS ARE TO BE COORDINATED WITH THE ENVIRONMENTAL DEPARTMENT.

BMP PICTURES

SCALE: NONE

A photograph showing a yellow silt sack installed in a curb opening. The sack is secured with a metal grate and a rubber seal. The sack has a central drop inlet for water to enter.

A photograph showing a person in blue overalls and a hard hat installing a yellow silt sack into a curb opening. The person is using a tool to position the sack correctly.

DETAIL AND IMAGES PROVIDED BY ACF ENVIRONMENTAL
<https://acfenvironmental.com/products/inlet-protection/drop-inlets/silt-sack/>

AA-20A
DROP INLET SILT SACK

DETAIL AND IMAGES PROVIDED BY ACF ENVIRONMENTAL
<https://acfenvironmental.com/products/inlet-protection/drop-inlets/sillsack/>

Detail #15

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

Details

Bristol and Warren, RI

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Source: RIGIS, National Grid, VHB



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