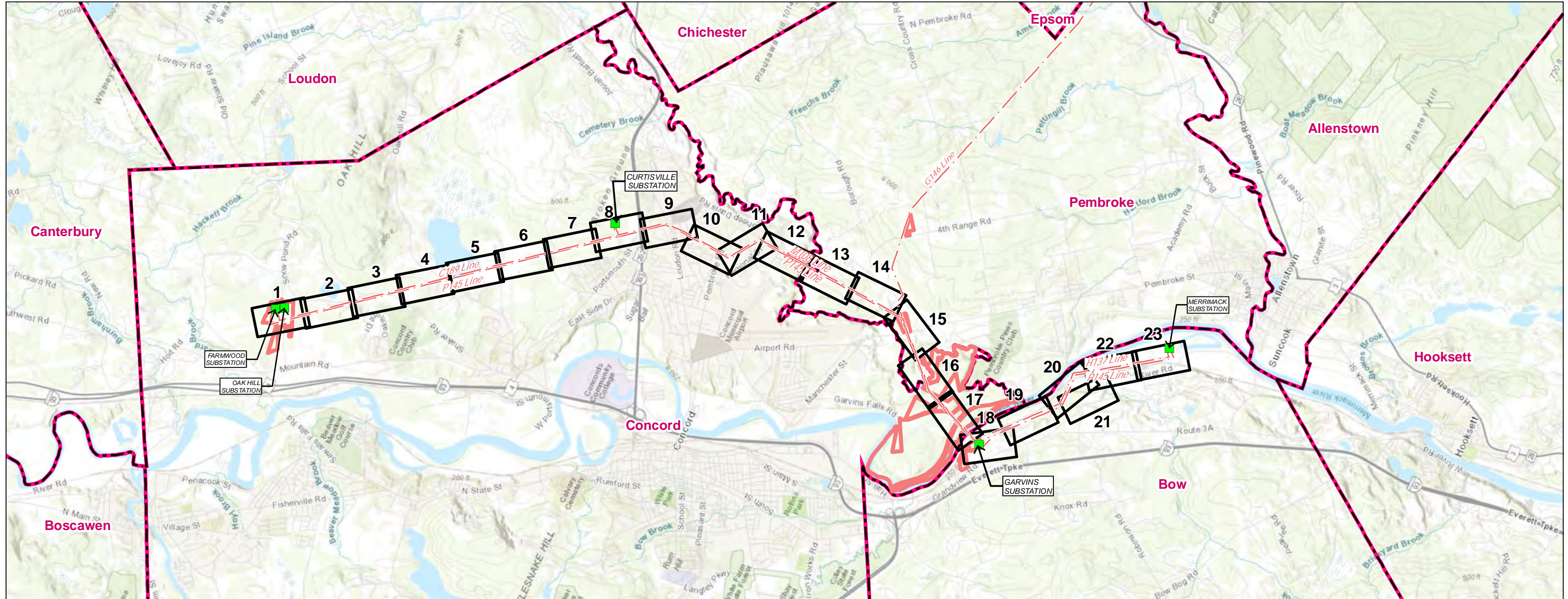


# C189/G146/H137/M108 Laminate Wood Structure Replacement Project

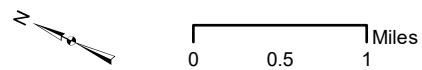
Concord, Pembroke, Bow, NH  
Environmental Resources Map

PERMIT Map Set

Date: May 22, 2023



- Legend**
- Substation
  - Map Sheet
  - Eversource Owned Property
  - · — Overhead Eversource Line
  - Municipal Boundary



INDEX OF FIGURES  
Title Sheet / Index Map  
Map Sheets 1-23  
Wildlife Notes 1-9

PREPARED FOR:



107 Selden Street  
Berlin, CT 06037

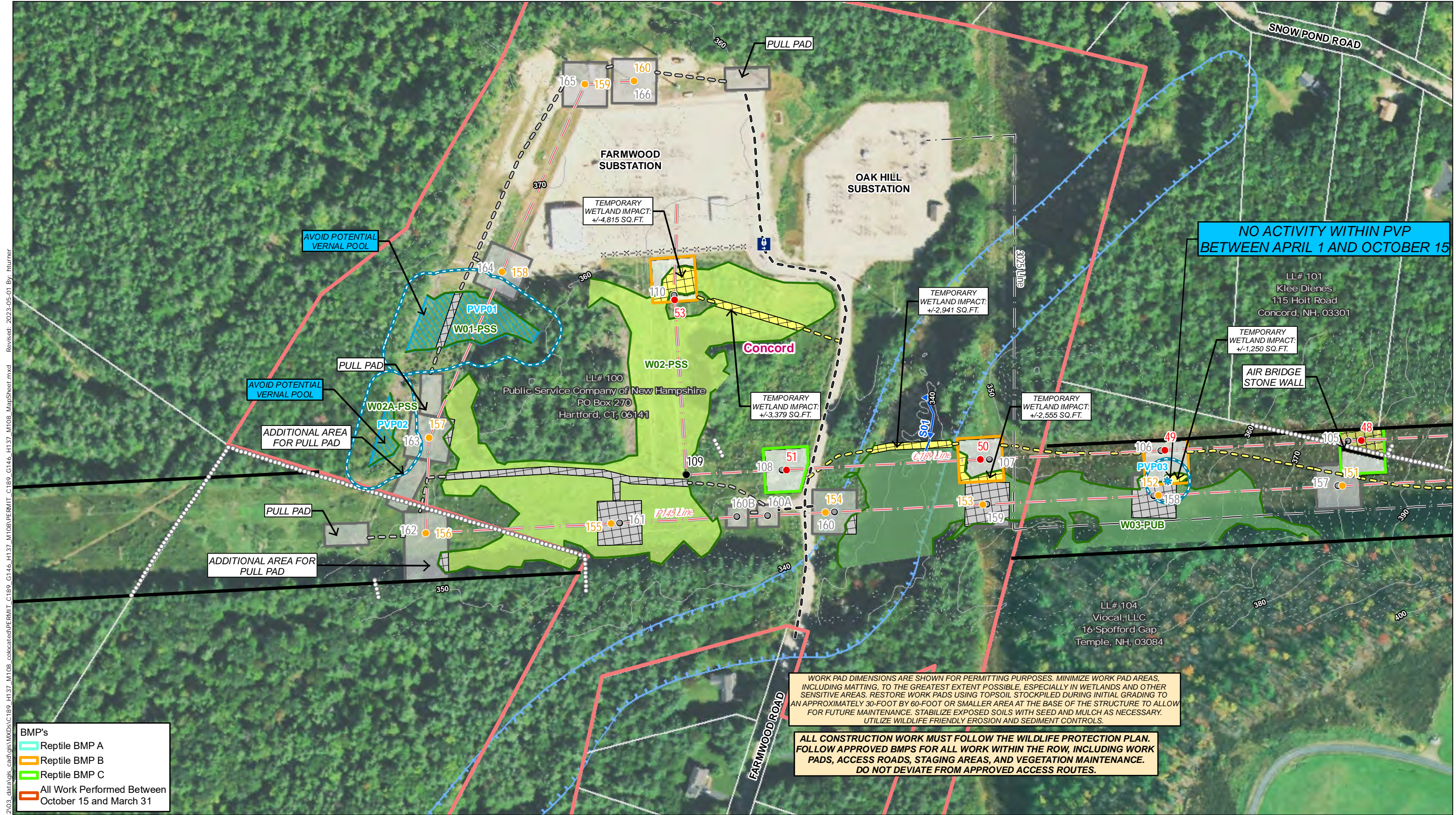
PREPARED BY:



30 Park Drive  
Topsham, ME 04086

Revised: 2023-05-01 By: humer  
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**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31

**Legend**

- Proposed Structure
- Previously Permitted Structure
- Existing Structure
- Existing Structure to be Removed
- Distribution Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights

- Proposed Access
- Proposed Access (Previously Permitted)
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- Temporary Construction Matting (Previously Permitted)
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- Stone Work Pad (Previously Permitted)
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- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- 2' Contours
- 10' Contours

- Potential Vernal Pool
- Potential Vernal Pool Extent
- Vernal Pool 50R Envelope
- Delineated Perennial Stream
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- Delineated Ephemeral Stream
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- Priority Resource Area
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- FEMA 100-Year Flood Zone
- FEMA Floodway
- NHDES Protected Shoreland
- Railroad
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Berm
- Mobile Sub
- Gate
- Culvert

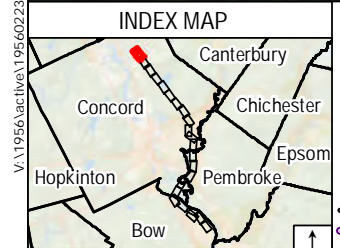
**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

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WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

**ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMP'S FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.**

**NO ACTIVITY WITHIN PVP BETWEEN APRIL 1 AND OCTOBER 15**



**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH      MAP SHEET: 1 of 23

Date: May 22, 2023

**Stantec**

V:\1956\active\19560222\03\_data\gis\cad\gis\MXDs\C189\_H137\_M108\_cocated\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner

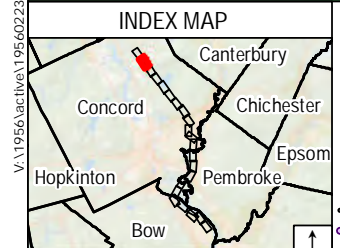


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- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31



**Legend**

<ul style="list-style-type: none"> <li>● Proposed Structure</li> <li>● Previously Permitted Structure</li> <li>● Existing Structure</li> <li>○ Existing Structure to be Removed</li> <li>○ Distribution Structure</li> <li>○ Overhead Eversource Line</li> <li>○ Overhead Distribution Line</li> <li>○ Underground Distribution Line</li> <li>○ Existing Right-of-Way (ROW)</li> <li>○ Existing Access</li> <li>○ Off-ROW Access Pending Rights</li> </ul>	<ul style="list-style-type: none"> <li>○ Proposed Access</li> <li>○ Proposed Access (Previously Permitted)</li> <li>○ Temporary Construction Matting</li> <li>○ Temporary Construction Matting (Previously Permitted)</li> <li>○ Stone Work Pad</li> <li>○ Stone Work Pad (Previously Permitted)</li> <li>○ Existing Gravel</li> <li>○ Eversource Owned Property</li> <li>○ State Owned Land</li> <li>○ LLN/Property Owner</li> <li>○ Parcel Boundary</li> <li>○ Municipal Boundary</li> <li>○ 2' Contours</li> <li>○ 10' Contours</li> </ul>	<ul style="list-style-type: none"> <li>● Potential Vernal Pool</li> <li>● Potential Vernal Pool Extent</li> <li>● Vernal Pool 50R Envelope</li> <li>● Delineated Perennial Stream</li> <li>● Delineated Intermittent Stream</li> <li>● Delineated Ephemeral Stream</li> <li>● Field Delineated Wetland Boundary Outline</li> <li>● Field Delineated Wetland</li> <li>● Priority Resource Area</li> <li>● Open Water</li> </ul>
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<ul style="list-style-type: none"> <li>■ FEMA 100-Year Flood Zone</li> <li>■ FEMA Floodway</li> <li>■ NHDES Protected Shoreland</li> <li>■ Railroad</li> <li>■ GAS Approximate Gas Line</li> <li>■ Fence</li> <li>■ Stone Wall</li> <li>■ Berm</li> <li>■ Mobile Sub</li> </ul>	<ul style="list-style-type: none"> <li>■ Gate</li> <li>● Culvert</li> </ul>
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1 inch = 200 feet

**Map Notes:**  
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 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery



<b>EVERSOURCE ENERGY</b>	
<b>C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set</b>	
Concord, NH	MAP SHEET: 2 of 23
Date: May 22, 2023	

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NO ACTIVITY WITHIN PVP BETWEEN APRIL 1 AND OCTOBER 15

NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS ARE COMPLETED AND BMPs ARE DEVELOPED WITH NHB

LL# 109  
City of Concord  
41 Green Street  
Concord, NH, 03301

TEMPORARY WETLAND IMPACT: +/-559 SQ.FT.

UTILIZE EXISTING BREACH IN STONE WALL

TEMPORARY WETLAND IMPACT: +/-1,120 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-299 SQ.FT.

AVOID POTENTIAL VERNAL POOL

TEMPORARY WETLAND IMPACT: +/-1,845 SQ.FT.

OPTIONAL ACCESS

OPTIONAL ACCESS

SHAKER ROAD

SNOWPOND ROAD

W06-PSS

W07-PEM

W08-PEM

W09-PSS

W10-PSS

Concord

LOW OVERHEAD CLEARANCE

LL# 108  
Elizabeth Terrell  
183 Shaker Road  
Concord, NH, 03301

LL# 11  
Elizabeth  
183 Shake  
Concord, NH

LL# 107  
Viocal, LLC  
16 Spofford Gap  
Temple, NH, 03084

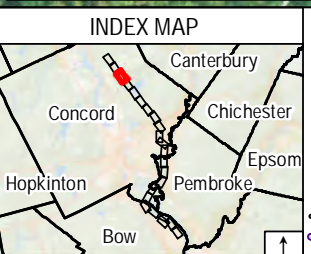
TEMPORARY WETLAND IMPACT: +/-663 SQ.FT.

CHECKERBERRY LANE

V:\1956\active\19560222\03\_data\gis\cad\gis\MXD\19560222\03\_M108\_cad\locat\PERMIT\_C189\_G146\_H137\_M108.mxd Revised: 2023-05-01 By: hturner

**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31



**Legend**

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- Existing Structure
- Existing Structure to be Removed
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- Overhead Distribution Line
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- Proposed Access (Previously Permitted)
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- Temporary Construction Matting (Previously Permitted)
- Stone Work Pad
- Stone Work Pad (Previously Permitted)
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- Parcel Boundary
- Municipal Boundary
- 2' Contours
- 10' Contours
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- Potential Vernal Pool Extent
- Vernal Pool 50R Envelope
- Delineated Perennial Stream
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- Delineated Ephemeral Stream
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- Open Water
- FEMA 100-Year Flood Zone
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- Railroad
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Berm
- Mobile Sub
- Gate
- Culvert
- Rare Plant Survey Not Yet Complete

**Map Notes:**  
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
Additional source include: NH Grant  
Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

1 inch = 200 feet

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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminare Wood Structure Replacement Project PERMIT Map Set**

Concord, NH

Date: May 22, 2023

MAP SHEET: 3 of 23

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPs FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

POTENTIAL TURTLE OVERWINTERING HABITAT.  
NO MATTING INSTALLATION DURING DORMANT SEASON,  
OCTOBER 15 TO MARCH 31

NO ACTIVITY WITHIN PVP  
BETWEEN APRIL 1 AND OCTOBER 15

NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS  
ARE COMPLETED AND BMPs ARE DEVELOPED WITH NHB

LL# 109  
City of Concord  
41 Green Street  
Concord, NH, 03301

LL# 112  
Kurt, Justin & Susan Gualteri  
99 Oak Hill Road  
Concord, NH, 03301

LL# 115  
Kevin Perron  
86 Oak Hill Road  
Concord, NH, 03301

LL# 111  
Dean Wilbur Trust & Margaret Wilbur Trust  
7301 Hot Hole Pond Road  
Loudon, NH, 03307

LL# 113  
Ryan R. Towle  
203 Loudon Road, Unit 316  
Concord, NH, 03301

LL# 110  
Elizabeth Terrell  
183 Shaker Road  
Concord, NH, 03301

LL# 114  
Jeffrey W. Holt  
87 Oak Hill Road  
Concord, NH, 03301

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**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31

**INDEX MAP**

**Legend**

- Proposed Structure
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**Map Notes:**  
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1 inch = 200 feet  
0 50 100 200 Feet

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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminated Wood Structure Replacement Project PERMIT Map Set**

Concord, NH MAP SHEET: 4 of 23

Date: May 22, 2023

Stantec

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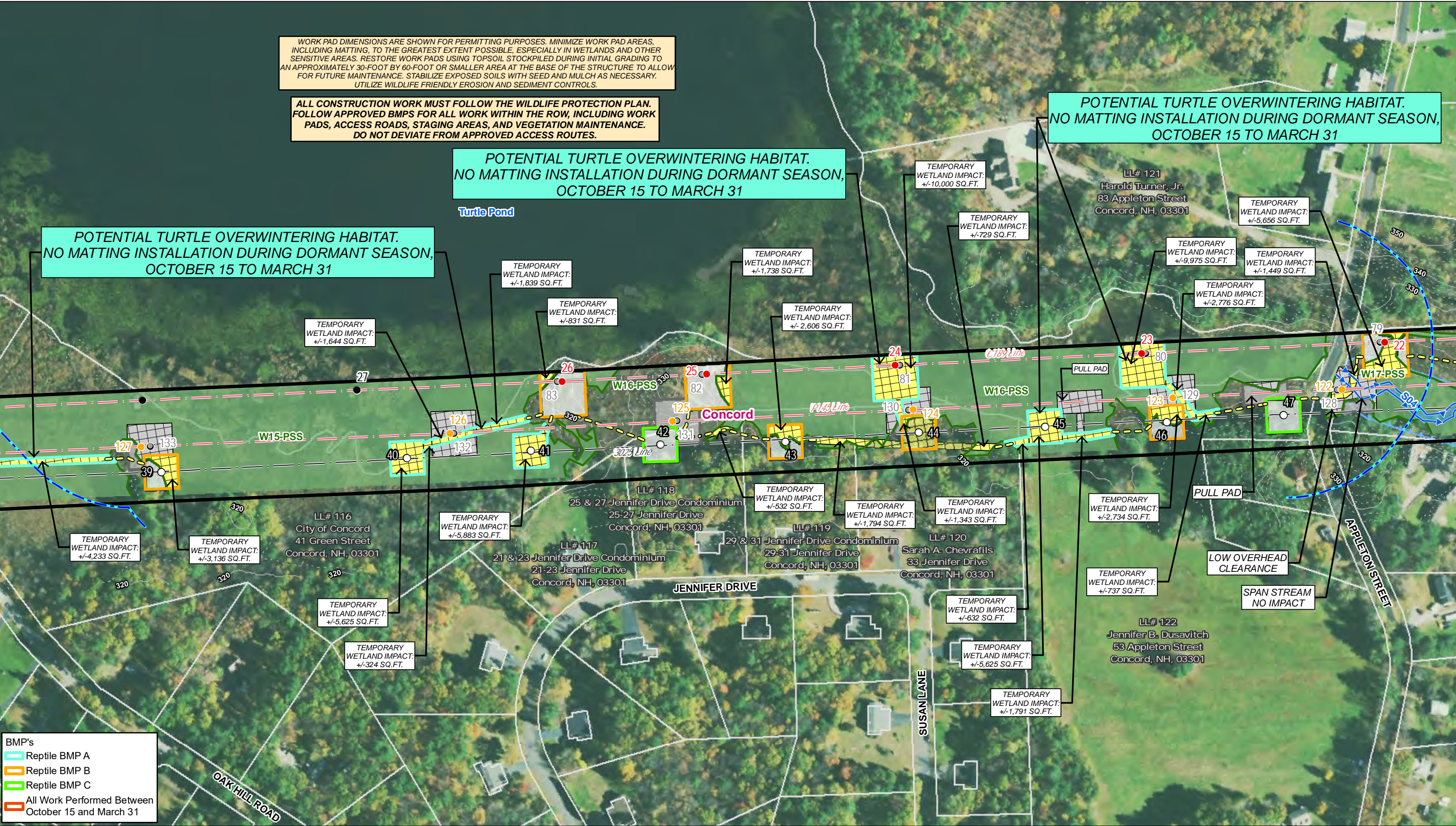
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POTENTIAL TURTLE OVERWINTERING HABITAT.  
NO MATTING INSTALLATION DURING DORMANT SEASON,  
OCTOBER 15 TO MARCH 31

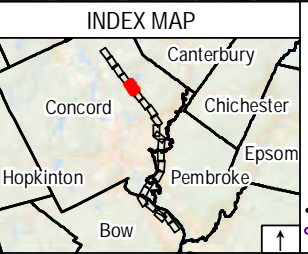
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- BMP's**
- Reptile BMP A
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  - Reptile BMP C
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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project**  
**PERMIT Map Set**

Concord, NH	MAP SHEET: 5 of 23
Date: May 22, 2023	

V:\1956\active\19560228\03\_data\gis\cad\gis\MXD\03\_C189\_H137\_M108\_cocated\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner

LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA.  
REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

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LL# 126  
Reed & Virginia Stevens Revocable Trust  
47 Ridge Road  
Concord, NH, 03301

LL# 123  
Clarence Nelson Trust of 2019  
91 Appleton Street  
Concord, NH, 03301

LL# 125  
John G Reardon  
37 Curtisville Road  
Concord, NH, 03301

LL# 124  
SLP Investments, LTD  
8501 Lullwater Drive, Apt 3311  
Dallas, TX, 75238

TEMPORARY WETLAND IMPACT: +/-5,656 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,160 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-4,382 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,157 SQ.FT.

SPAN STREAM NO IMPACT

LARGE COARSE WOODY DEBRIS

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

79

127

121

120

126

119

125

124

118

123

122

121

115

114

22

78

21

20

19

76

18

75

17

74

16

15

APPLETON STREET

APPLETON STREET

Mill Brook

Concord

W17-PSS

PVP07

3025 Line

C189 Line

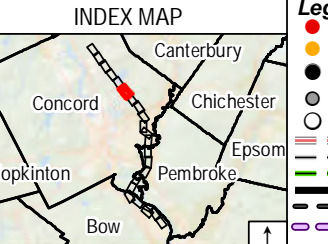
P142 Line

S04

AVOID POTENTIAL VERNAL POOL

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- Berm
- Mobile Sub
- Gate
- Culvert

**Map Notes:**  
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
Additional source include: NH Granit  
Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

1 inch = 200 feet

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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH

Date: May 22, 2023

MAP SHEET: 6 of 23

Stantec

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LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA.  
REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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FOLLOW APPROVED BMPs FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE.  
DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

LL# 128  
Unitil Energy Systems, Inc.  
6 Liberty Lane W  
Hampton, NH, 03842

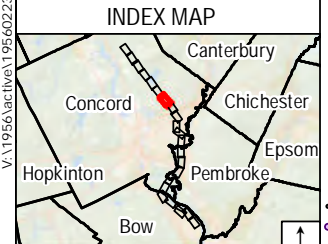
LL# 126  
Reed & Virginia Stevens Revocable Trust  
47 Ridge Road  
Concord, NH, 03301

LL# 125  
John G Reardon  
37 Curtsville Road  
Concord, NH, 03301

LL# 127  
Reed & Virginia Stevens Revocable Trust  
47 Ridge Road  
Concord, NH, 03301

**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31



**Legend**

- Proposed Structure
- Previously Permitted Structure
- Existing Structure
- Existing Structure to be Removed
- Distribution Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Proposed Access
- Proposed Access (Previously Permitted)
- Temporary Construction Matting
- Temporary Construction Matting (Previously Permitted)
- Stone Work Pad
- Stone Work Pad (Previously Permitted)
- Existing Gravel
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- 2' Contours
- 10' Contours
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Vernal Pool 50R Envelope
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Priority Resource Area
- Open Water
- FEMA 100-Year Flood Zone
- FEMA Floodway
- NHDES Protected Shoreland
- Railroad
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Berm
- Mobile Sub
- Gate
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**Map Notes:**  
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
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1 inch = 200 feet

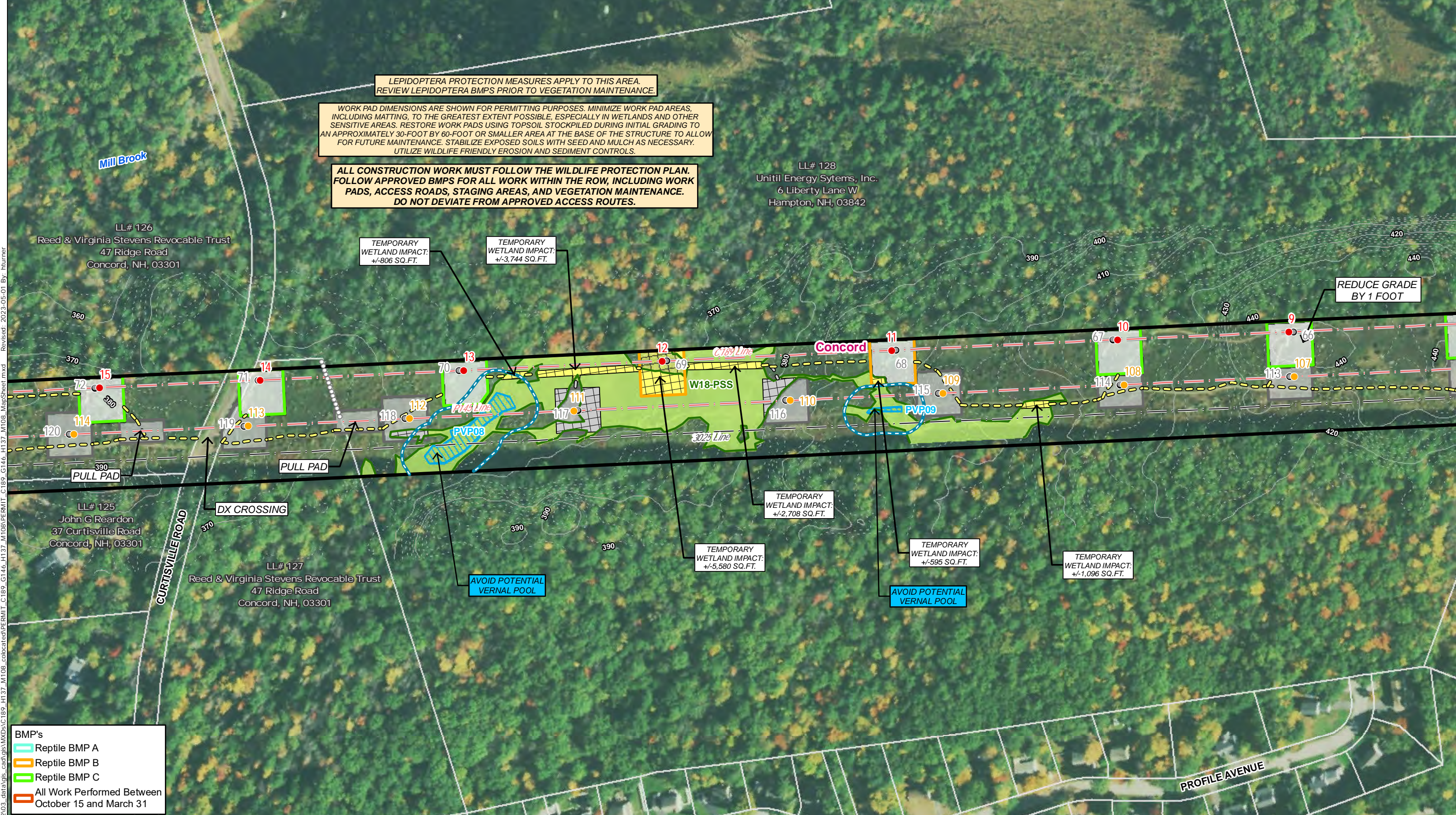


**EVSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project**  
**PERMIT Map Set**

Concord, NH  
Date: May 22, 2023

MAP SHEET: 7 of 23





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LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA. REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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NO ACTIVITY WITHIN PVP BETWEEN APRIL 1 AND OCTOBER 15

STRUCTURES 1,2,3,4 ON THE C189 LINE AND 62,63, AND 64 ON THE M108 LINE ARE RENUMBERED ONLY

LL# 128  
Unitil Energy Sytems, Inc.  
6 Liberty Lane W  
Hampton, NH, 03842

LL# 129  
Unitil Energy Sytems, Inc.  
6 Liberty Lane W  
Hampton, NH, 03842

GRADE BEING LOWERED BY 1-FOOT

INSTALL INSULATOR STRUTS

TEMPORARY WETLAND IMPACT: +/-9,986 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-9,024 SQ.FT.

Concord

PULL PAD

SPLICE CAN

PVP10

W19-PSS

W20-PSS

PULL PAD

TEMPORARY WETLAND IMPACT: +/-781 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,667 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-415 SQ.FT.

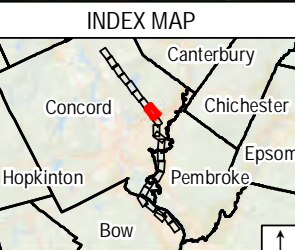
TEMPORARY WETLAND IMPACT: +/-1,034 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-843 SQ.FT.

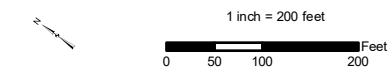
TEMPORARY WETLAND IMPACT: +/-4,229 SQ.FT.

LL# 132  
Hodges Properties, Inc.  
201 Loudon Road  
Concord, NH, 03301

- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- Proposed Structure
  - Previously Permitted Structure
  - Existing Structure
  - Existing Structure to be Removed
  - Distribution Structure
  - Overhead Eversource Line
  - Overhead Distribution Line
  - Underground Distribution Line
  - Existing Right-of-Way (ROW)
  - Existing Access
  - Off-ROW Access Pending Rights
  - Proposed Access
  - Proposed Access (Previously Permitted)
  - Temporary Construction Matting
  - Temporary Construction Matting (Previously Permitted)
  - Stone Work Pad
  - Stone Work Pad (Previously Permitted)
  - Existing Gravel
  - Eversource Owned Property
  - State Owned Land
  - LLN/Property Owner
  - Parcel Boundary
  - Municipal Boundary
  - 2' Contours
  - 10' Contours
  - Potential Vernal Pool
  - Potential Vernal Pool Extent
  - Vernal Pool 50R Envelope
  - Delineated Perennial Stream
  - Delineated Intermittent Stream
  - Delineated Ephemeral Stream
  - Field Delineated Wetland Boundary Outline
  - Field Delineated Wetland
  - Priority Resource Area
  - Open Water
  - FEMA 100-Year Flood Zone
  - FEMA Floodway
  - NHDES Protected Shoreland
  - Railroad
  - GAS Approximate Gas Line
  - Fence
  - Stone Wall
  - Berm
  - Mobile Sub
  - Gate
  - Culvert



**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

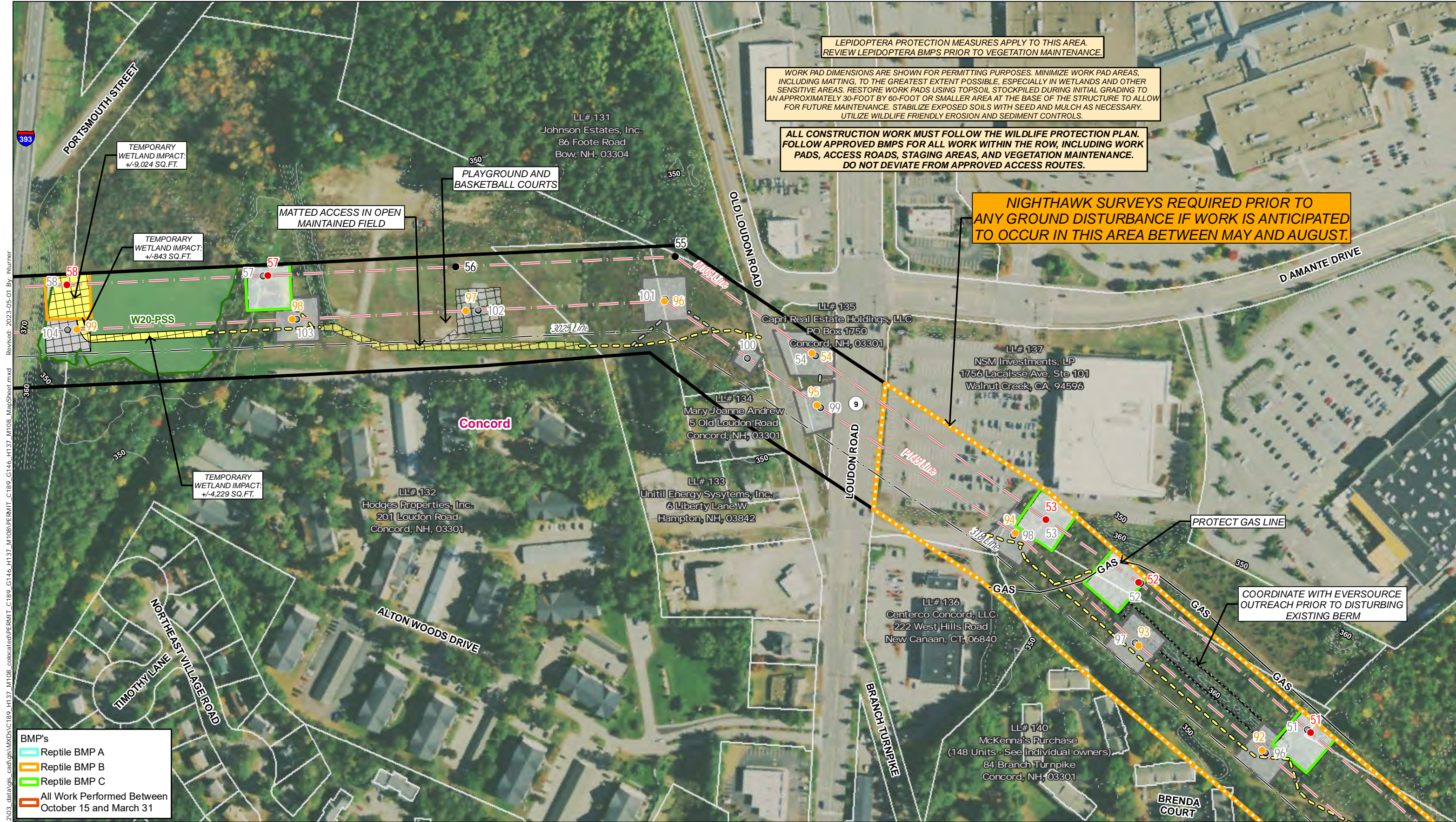
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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH	MAP SHEET: 8 of 23
Date: May 22, 2023	



LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA.  
REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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NIGHTHAWK SURVEYS REQUIRED PRIOR TO ANY GROUND DISTURBANCE IF WORK IS ANTICIPATED TO OCCUR IN THIS AREA BETWEEN MAY AND AUGUST.

TEMPORARY WETLAND IMPACT: +/-9,024 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-843 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-4,229 SQ.FT.

PLAYGROUND AND BASKETBALL COURTS

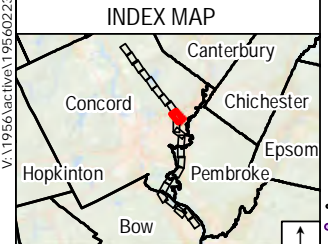
MATTED ACCESS IN OPEN MAINTAINED FIELD

PROTECT GAS LINE

COORDINATE WITH EVERSOURCE OUTREACH PRIOR TO DISTURBING EXISTING BERM

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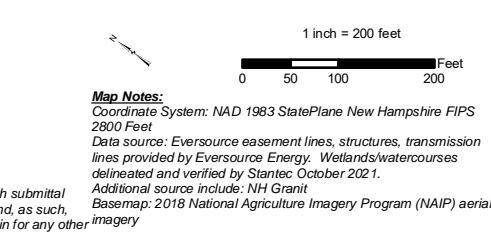
- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- Proposed Structure
  - Previously Permitted Structure
  - Existing Structure
  - Existing Structure to be Removed
  - Distribution Structure
  - Overhead Eversource Line
  - Overhead Distribution Line
  - Underground Distribution Line
  - Existing Right-of-Way (ROW)
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  - Existing Gravel
  - Eversource Owned Property
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  - 2' Contours
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  - Potential Vernal Pool
  - Potential Vernal Pool Extent
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  - Field Delineated Wetland Boundary Outline
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  - Fence
  - Stone Wall
  - Berm
  - Mobile Sub
  - Gate
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  - Common Nighthawk BMP

- Map Notes:**  
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
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Additional source include: NH Grant  
Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery
- This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

- Legend**
- FEMA 100-Year Flood Zone
  - FEMA Floodway
  - NHDES Protected Shoreland
  - Railroad
  - GAS Approximate Gas Line
  - Fence
  - Stone Wall
  - Berm
  - Mobile Sub
  - Gate
  - Culvert
  - Common Nighthawk BMP



**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH	MAP SHEET: 9 of 23
Date: May 22, 2023	

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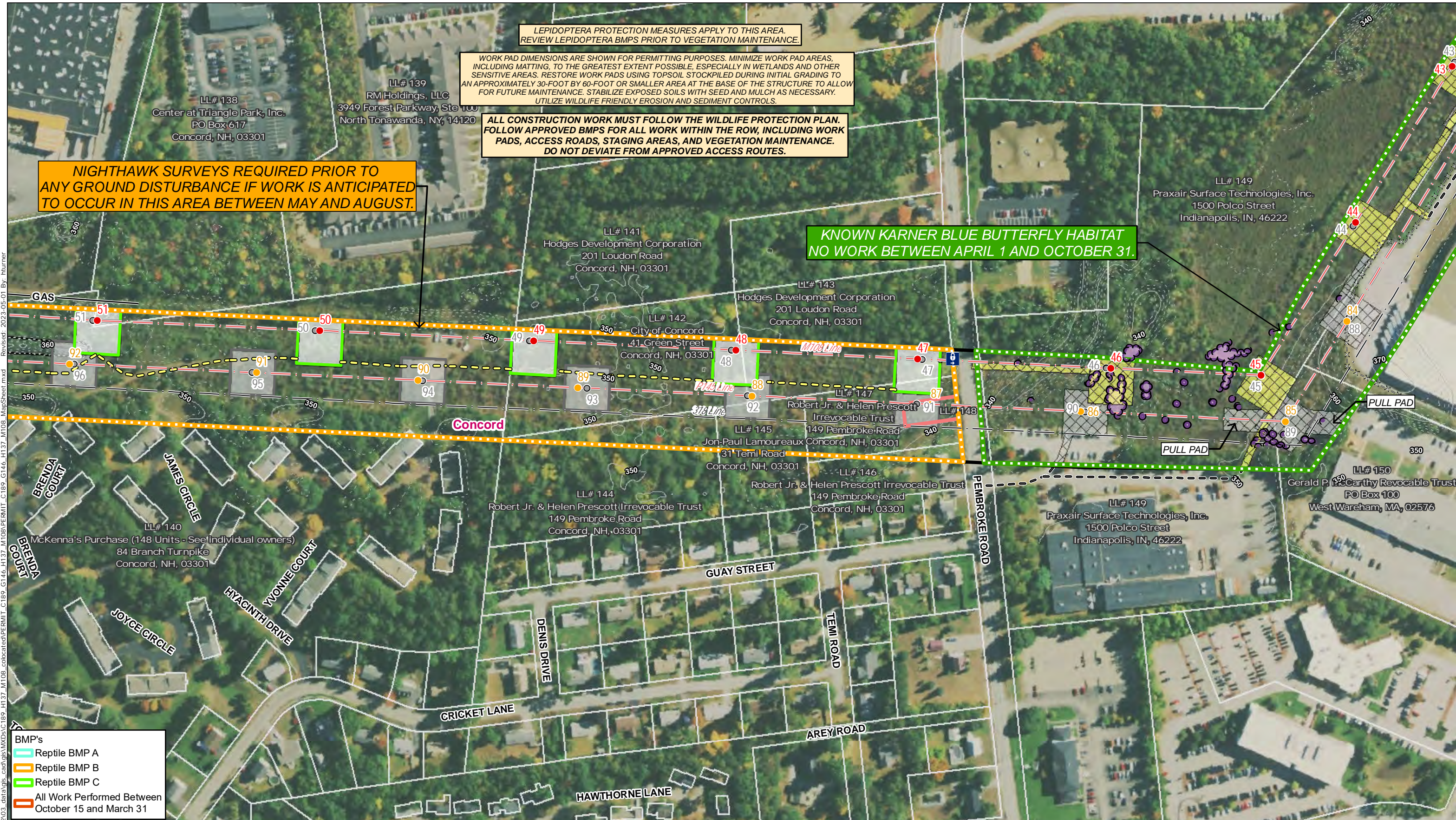
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REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

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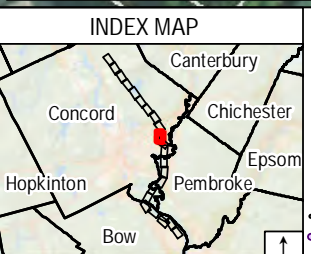
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NIGHTHAWK SURVEYS REQUIRED PRIOR TO ANY GROUND DISTURBANCE IF WORK IS ANTICIPATED TO OCCUR IN THIS AREA BETWEEN MAY AND AUGUST.

KNOWN KARNER BLUE BUTTERFLY HABITAT  
NO WORK BETWEEN APRIL 1 AND OCTOBER 31.



- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <ul style="list-style-type: none"> <li><span style="border: 1px solid red; width: 10px; height: 10px; display: inline-block;"></span> Proposed Structure</li> <li><span style="border: 1px solid orange; width: 10px; height: 10px; display: inline-block;"></span> Previously Permitted Structure</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Existing Structure</li> <li><span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Existing Structure to be Removed</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Distribution Structure</li> <li><span style="border: 1px solid red; width: 10px; height: 10px; display: inline-block;"></span> Overhead Eversource Line</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Overhead Distribution Line</li> <li><span style="border: 1px solid green; width: 10px; height: 10px; display: inline-block;"></span> Underground Distribution Line</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Existing Right-of-Way (ROW)</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Existing Access</li> <li><span style="border: 1px dashed black; width: 10px; height: 10px; display: inline-block;"></span> Off-ROW Access Pending Rights</li> </ul> | <ul style="list-style-type: none"> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Proposed Access</li> <li><span style="border: 1px solid orange; width: 10px; height: 10px; display: inline-block;"></span> Proposed Access (Previously Permitted)</li> <li><span style="border: 1px solid yellow; width: 10px; height: 10px; display: inline-block;"></span> Temporary Construction Matting</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Temporary Construction Matting (Previously Permitted)</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Stone Work Pad</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Stone Work Pad (Previously Permitted)</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Existing Gravel</li> <li><span style="border: 1px solid red; width: 10px; height: 10px; display: inline-block;"></span> Eversource Owned Property</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> State Owned Land</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> LLN/Property Owner</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Parcel Boundary</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Municipal Boundary</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> 2' Contours</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> 10' Contours</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">*</span> Potential Vernal Pool</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Potential Vernal Pool Extent</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Vernal Pool 50R Envelope</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Delineated Perennial Stream</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Delineated Intermittent Stream</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Delineated Ephemeral Stream</li> <li><span style="border: 1px solid green; width: 10px; height: 10px; display: inline-block;"></span> Field Delineated Wetland Boundary Outline</li> <li><span style="border: 1px solid green; width: 10px; height: 10px; display: inline-block;"></span> Field Delineated Wetland</li> <li><span style="border: 1px solid green; width: 10px; height: 10px; display: inline-block;"></span> Priority Resource Area</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> Open Water</li> </ul> | <ul style="list-style-type: none"> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> FEMA 100-Year Flood Zone</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> FEMA Floodway</li> <li><span style="border: 1px solid blue; width: 10px; height: 10px; display: inline-block;"></span> NHDES Protected Shoreland</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Railroad</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> GAS Approximate Gas Line</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Fence</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Stone Wall</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Berm</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Mobile Sub</li> </ul> | <ul style="list-style-type: none"> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Gate</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Culvert</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Common Nighthawk BMP</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Karner Blue Butterfly Habitat</li> <li><span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Wild Lupine</li> </ul> |
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1 inch = 200 feet

0 50 100 200 Feet

**Map Notes:**  
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Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
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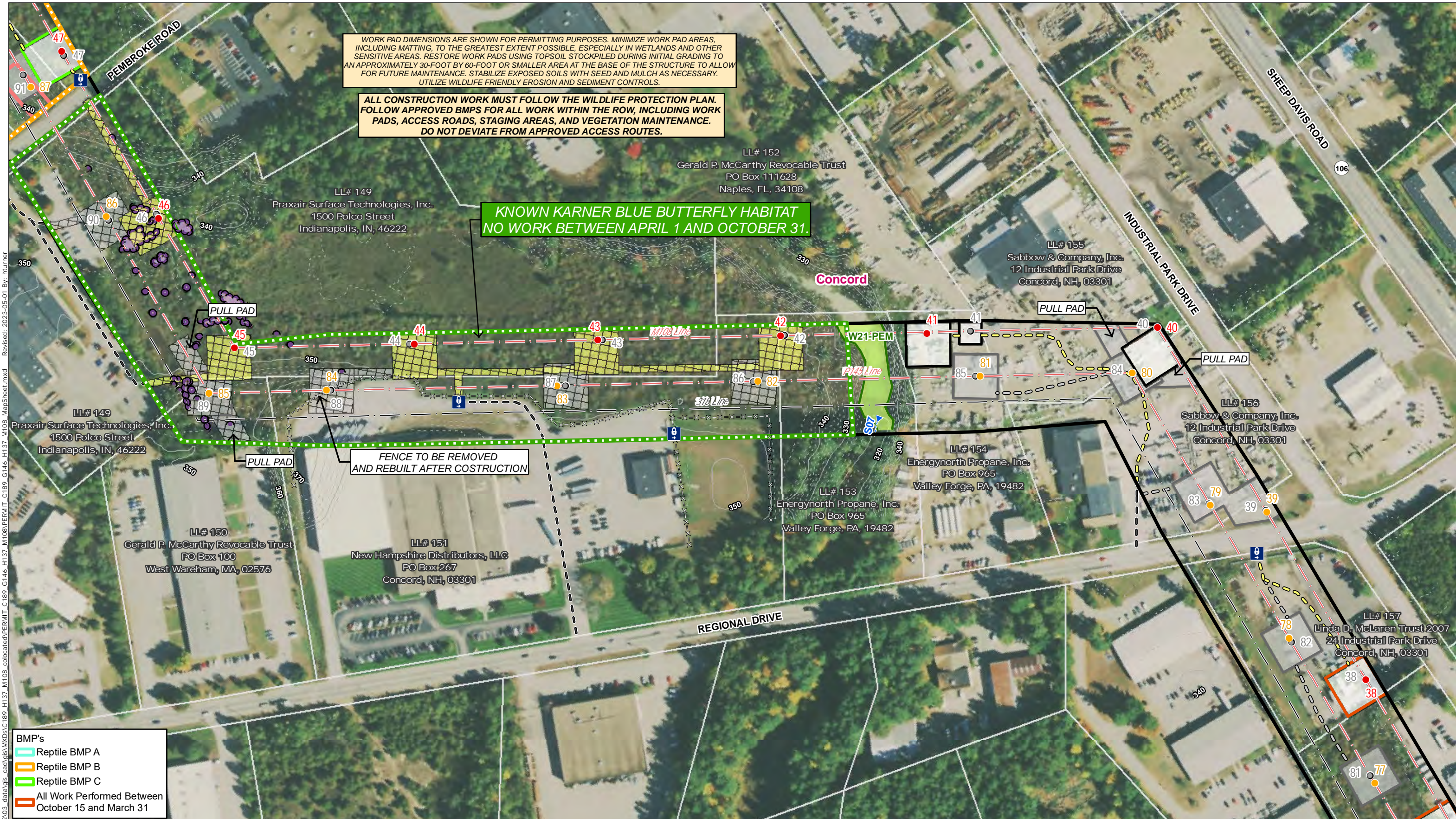


**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH	MAP SHEET: 10 of 23
Date: May 22, 2023	

V:\1956\active\19560223\03\_data\gis\cad\gis\MXDs\C189\_H137\_M108\_cobocated\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner



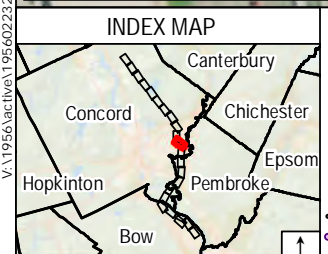
WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPs FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

**KNOWN KARNER BLUE BUTTERFLY HABIT  
NO WORK BETWEEN APRIL 1 AND OCTOBER 31.**

FENCE TO BE REMOVED  
AND REBUILT AFTER COSTRUCTION

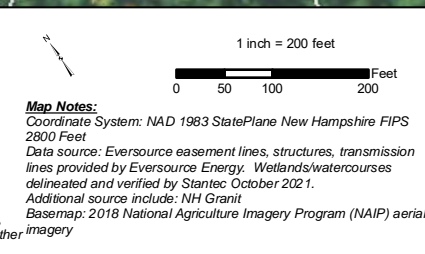
- BMP's**
- ▬ Reptile BMP A
  - ▬ Reptile BMP B
  - ▬ Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- Proposed Structure
  - Previously Permitted Structure
  - Existing Structure
  - Existing Structure to be Removed
  - Distribution Structure
  - Overhead Eversource Line
  - Overhead Distribution Line
  - Underground Distribution Line
  - Existing Right-of-Way (ROW)
  - Existing Access
  - Off-ROW Access Pending Rights
  - Proposed Access
  - Proposed Access (Previously Permitted)
  - Temporary Construction Matting
  - Temporary Construction Matting (Previously Permitted)
  - Stone Work Pad
  - Stone Work Pad (Previously Permitted)
  - Existing Gravel
  - Eversource Owned Property
  - State Owned Land
  - LLN/Property Owner
  - Parcel Boundary
  - Municipal Boundary
  - 2' Contours
  - 10' Contours
  - \* Potential Vernal Pool
  - Potential Vernal Pool Extent
  - Vernal Pool 50R Envelope
  - Delineated Perennial Stream
  - Delineated Intermittent Stream
  - Delineated Ephemeral Stream
  - Field Delineated Wetland Boundary Outline
  - Field Delineated Wetland
  - Priority Resource Area
  - Open Water
  - FEMA 100-Year Flood Zone
  - FEMA Floodway
  - NHDES Protected Shoreland
  - Railroad
  - GAS Approximate Gas Line
  - Fence
  - Stone Wall
  - Berm
  - Mobile Sub
  - Gate
  - Culvert
  - Common Nighthawk BMP
  - Karner Blue Butterfly Habitat
  - Wild Lupine

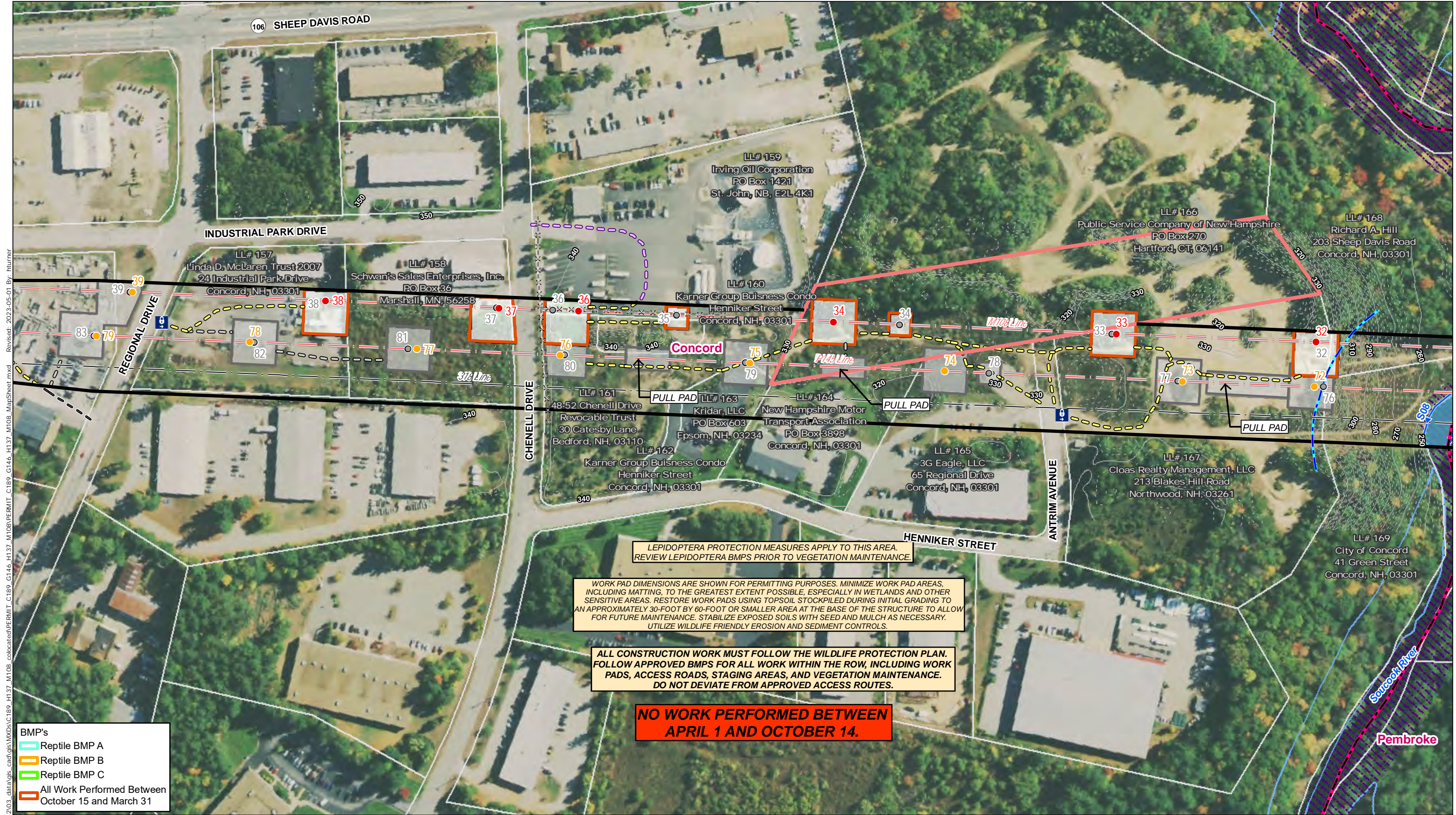
- Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

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<b>EVERSOURCE ENERGY</b>	
<b>C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set</b>	
Concord, NH	MAP SHEET: 11 of 23
Date: May 22, 2023	

V:\1956\active\195602282\03\_data\gis\cad\gis\MXDs\C189\_G146\_H137\_M108\_collocated\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner



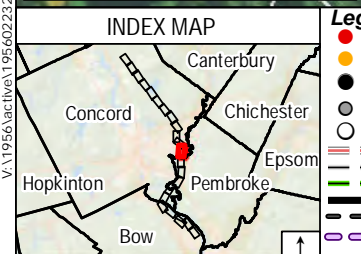
LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA. REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

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**NO WORK PERFORMED BETWEEN APRIL 1 AND OCTOBER 14.**

- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



**Legend**

<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Proposed Structure</li> <li><span style="color: orange;">●</span> Previously Permitted Structure</li> <li><span style="color: black;">●</span> Existing Structure</li> <li><span style="border: 1px solid black; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> Existing Structure to be Removed</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Distribution Structure</li> <li><span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Overhead Eversource Line</li> <li><span style="border-bottom: 1px dotted black; width: 20px; display: inline-block;"></span> Overhead Distribution Line</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Underground Distribution Line</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Existing Right-of-Way (ROW)</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Existing Access</li> <li><span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Off-ROW Access Pending Rights</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px dashed orange; width: 20px; display: inline-block;"></span> Proposed Access</li> <li><span style="border-bottom: 1px dashed orange; width: 20px; display: inline-block;"></span> Proposed Access (Previously Permitted)</li> <li><span style="border-bottom: 1px dashed yellow; width: 20px; display: inline-block;"></span> Temporary Construction Matting</li> <li><span style="border-bottom: 1px dashed yellow; width: 20px; display: inline-block;"></span> Temporary Construction Matting (Previously Permitted)</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Stone Work Pad</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Stone Work Pad (Previously Permitted)</li> <li><span style="border-bottom: 1px solid black; 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width: 20px; display: inline-block;"></span> Open Water</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;"> </span> FEMA 100-Year Flood Zone</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> FEMA Floodway</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> NHDES Protected Shoreland</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Railroad</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> GAS Approximate Gas Line</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Fence</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Stone Wall</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Berm</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Mobile Sub</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid black; 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1 inch = 200 feet

**Map Notes:**  
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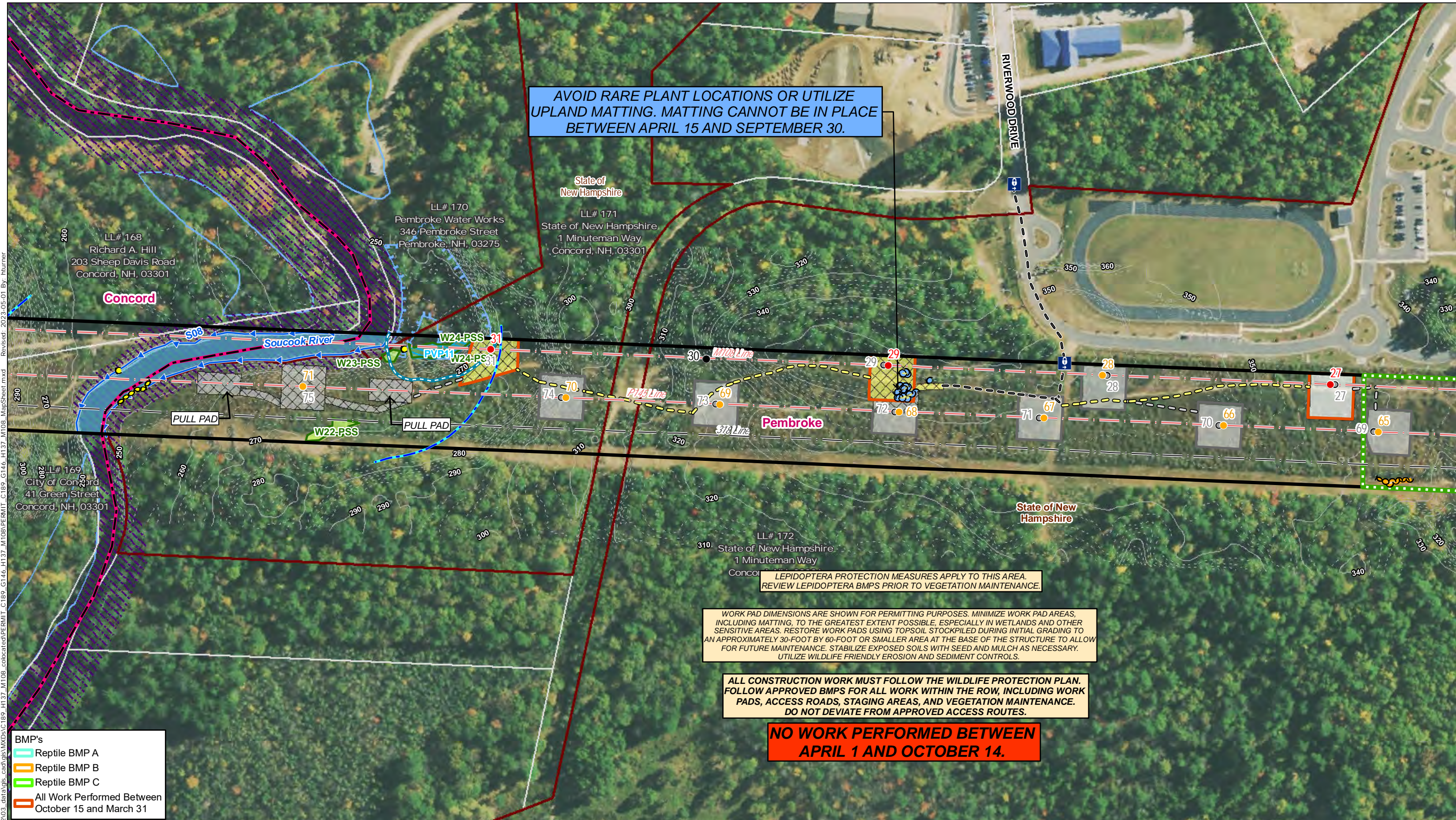
**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord, NH	MAP SHEET: 12 of 23
Date: May 22, 2023	

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AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

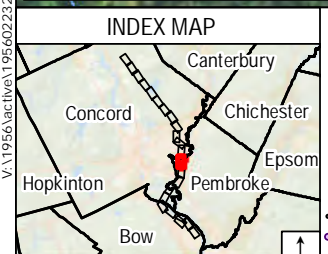
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  - All Work Performed Between October 15 and March 31



- Legend**
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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height: 10px; border: 1px solid black; margin-right: 5px;"></span> Licorice Goldenrod</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Dry Land Sedge</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Hollow Joe-Pye Weed</li> </ul> |
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<b>EVERSOURCE ENERGY</b>	
<b>C189/G146/H137/M108 Laminated Wood Structure Replacement Project PERMIT Map Set</b>	
Pembroke & Concord, NH	MAP SHEET: 13 of 23
Date: May 22, 2023	

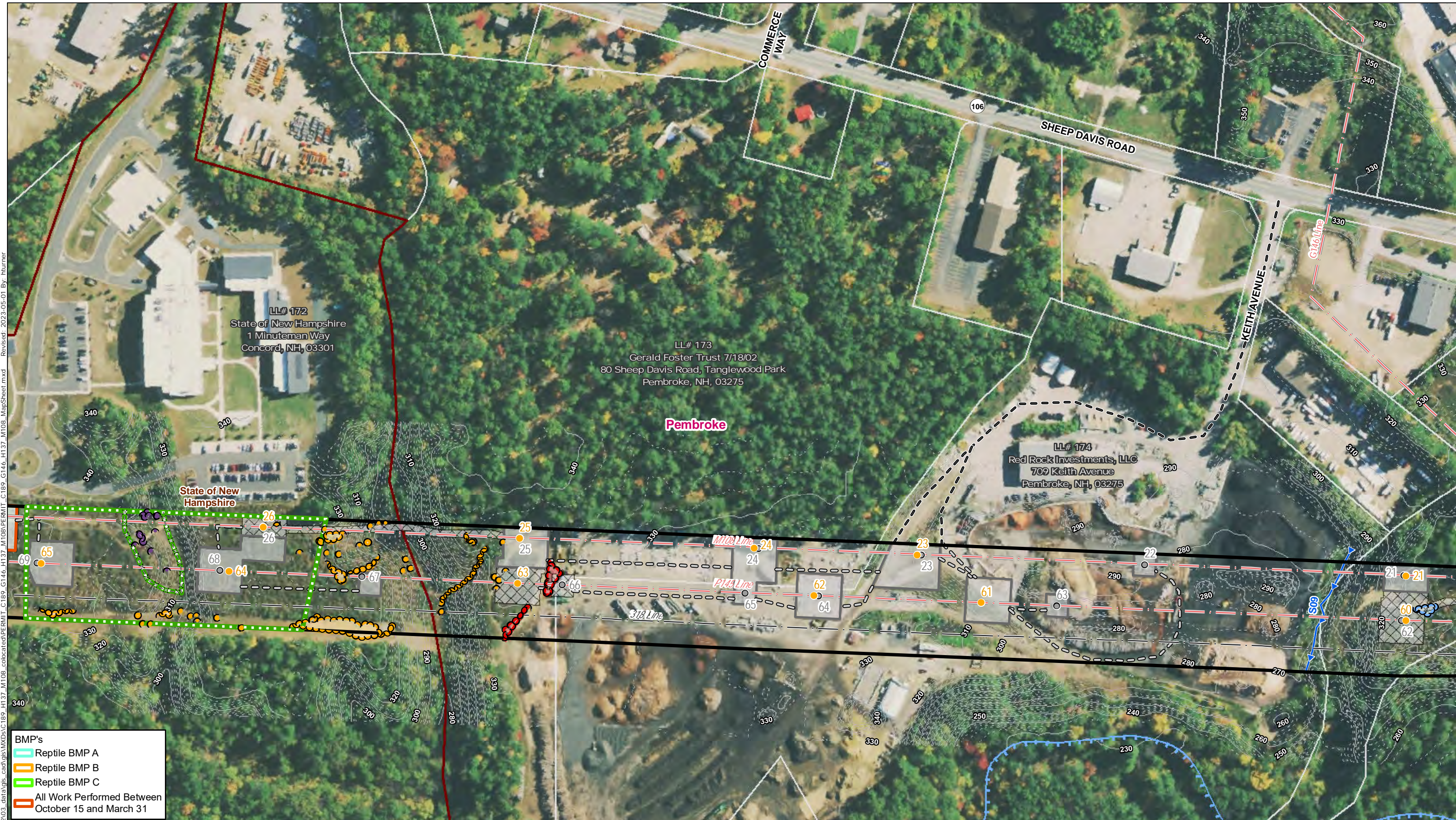
1 inch = 200 feet

0 50 100 200 Feet

**Map Notes:**  
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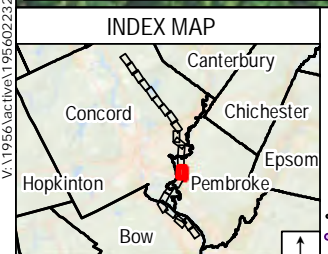
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V:\1956\active\195602282\03\_data\gis\cad\gis\MXD\195602282\03\_data\gis\cad\gis\PERMIT\_C189\_H137\_M108\_located\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner



**BMP's**

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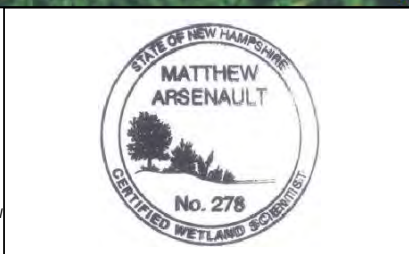
**Legend**

<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Proposed Structure</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> Previously Permitted Structure</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border: 1px solid black; margin-right: 5px;"></span> Existing Structure</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px dashed black; margin-right: 5px;"></span> Existing Structure to be Removed</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Distribution Structure</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid red; margin-right: 5px;"></span> Overhead Eversource Line</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Overhead Distribution Line</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid green; margin-right: 5px;"></span> Underground Distribution Line</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Existing Right-of-Way (ROW)</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Existing Access</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px dashed black; margin-right: 5px;"></span> Off-ROW Access Pending Rights</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Proposed Access</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Proposed Access (Previously Permitted)</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Temporary Construction Matting</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Temporary Construction Matting (Previously Permitted)</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Stone Work Pad</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Stone Work Pad (Previously Permitted)</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Existing Gravel</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid red; margin-right: 5px;"></span> Eversource Owned Property</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> State Owned Land</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> LLN/Property Owner</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Parcel Boundary</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Municipal Boundary</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> 2' Contours</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> 10' Contours</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Potential Vernal Pool</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Potential Vernal Pool Extent</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> Vernal Pool 50R Envelope</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid blue; margin-right: 5px;"></span> Delineated Perennial Stream</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px dashed blue; margin-right: 5px;"></span> Delineated Intermittent Stream</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px dotted blue; margin-right: 5px;"></span> Delineated Ephemeral Stream</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid green; margin-right: 5px;"></span> Field Delineated Wetland Boundary Outline</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid green; margin-right: 5px;"></span> Field Delineated Wetland</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid green; margin-right: 5px;"></span> Priority Resource Area</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid blue; margin-right: 5px;"></span> Open Water</li> </ul>
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<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> FEMA 100-Year Flood Zone</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> FEMA Floodway</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> NHDES Protected Shoreland</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Railroad</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> -GAS Approximate Gas Line</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Stone Wall</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Berm</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Mobile Sub</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Gate</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Karner Blue Butterfly Habitat</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Wild Lupine</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Licorice Goldenrod</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Dry Land Sedge</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Red Threawn</li> </ul>
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1 inch = 200 feet

**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery



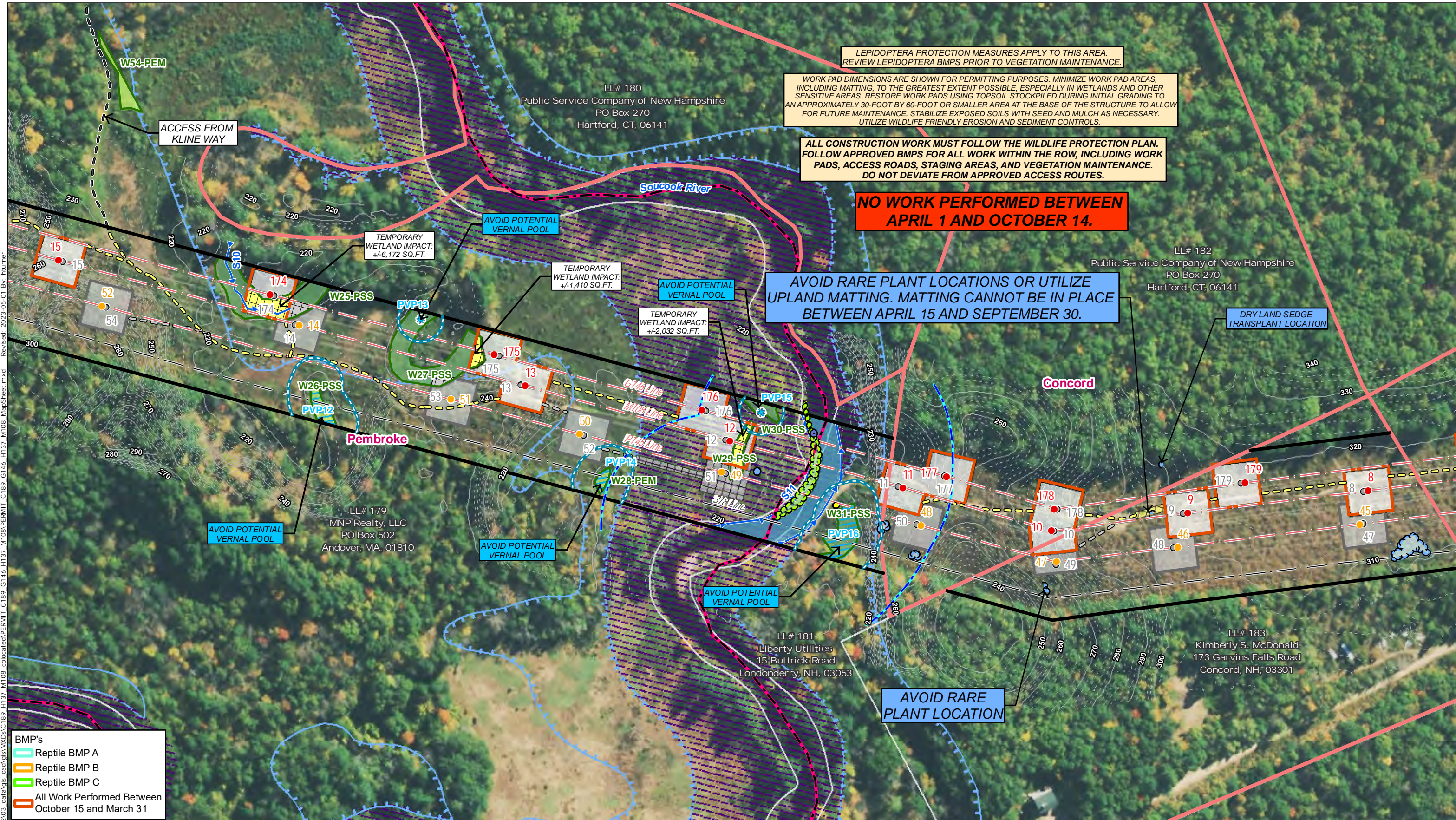
<b>EVERSOURCE ENERGY</b>	
<b>C189/G146/H137/M108 Laminated Wood Structure Replacement Project PERMIT Map Set</b>	
Pembroke, NH	MAP SHEET: 14 of 23
Date: May 22, 2023	

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

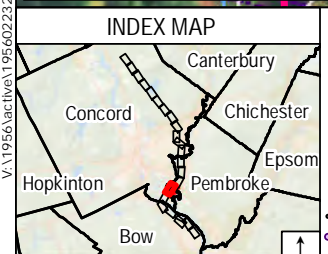




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- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                               |                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Proposed Structure</li> <li>Previously Permitted Structure</li> <li>Existing Structure</li> <li>Existing Structure to be Removed</li> <li>Distribution Structure</li> <li>Overhead Eversource Line</li> <li>Overhead Distribution Line</li> <li>Underground Distribution Line</li> <li>Existing Right-of-Way (ROW)</li> <li>Existing Access</li> <li>Off-ROW Access Pending Rights</li> </ul> | <ul style="list-style-type: none"> <li>Proposed Access</li> <li>Proposed Access (Previously Permitted)</li> <li>Temporary Construction Matting</li> <li>Temporary Construction Matting (Previously Permitted)</li> <li>Stone Work Pad</li> <li>Stone Work Pad (Previously Permitted)</li> <li>Existing Gravel</li> <li>Eversource Owned Property</li> <li>State Owned Land</li> <li>LLN/Property Owner</li> <li>Parcel Boundary</li> <li>Municipal Boundary</li> <li>2' Contours</li> <li>10' Contours</li> </ul> | <ul style="list-style-type: none"> <li>Potential Vernal Pool</li> <li>Potential Vernal Pool Extent</li> <li>Vernal Pool 50R Envelope</li> <li>Delineated Perennial Stream</li> <li>Delineated Intermittent Stream</li> <li>Delineated Ephemeral Stream</li> <li>Field Delineated Wetland Boundary Outline</li> <li>Field Delineated Wetland</li> <li>Priority Resource Area</li> <li>Open Water</li> </ul> | <ul style="list-style-type: none"> <li>FEMA 100-Year Flood Zone</li> <li>FEMA Floodway</li> <li>NHDES Protected Shoreland</li> <li>Railroad</li> <li>GAS Approximate Gas Line</li> <li>Fence</li> <li>Stone Wall</li> <li>Berm</li> <li>Mobile Sub</li> </ul> | <ul style="list-style-type: none"> <li>Gate</li> <li>Culvert</li> <li>Dry Land Sedge</li> <li>Hollow Joe-Pye Weed</li> <li>Incurved Umbrella Sedge</li> <li>Red-root Umbrella Sedge</li> </ul> |
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LEPIDOPTERA PROTECTION MEASURES APPLY TO THIS AREA. REVIEW LEPIDOPTERA BMPs PRIOR TO VEGETATION MAINTENANCE.

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPs FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

**NO WORK PERFORMED BETWEEN APRIL 1 AND OCTOBER 14.**

AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

DRY LAND SEDGE TRANSPLANT LOCATION

AVOID RARE PLANT LOCATION



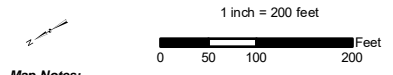
**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Concord & Pembroke, NH | MAP SHEET: 16 of 23

Date: May 22, 2023

**Stantec**

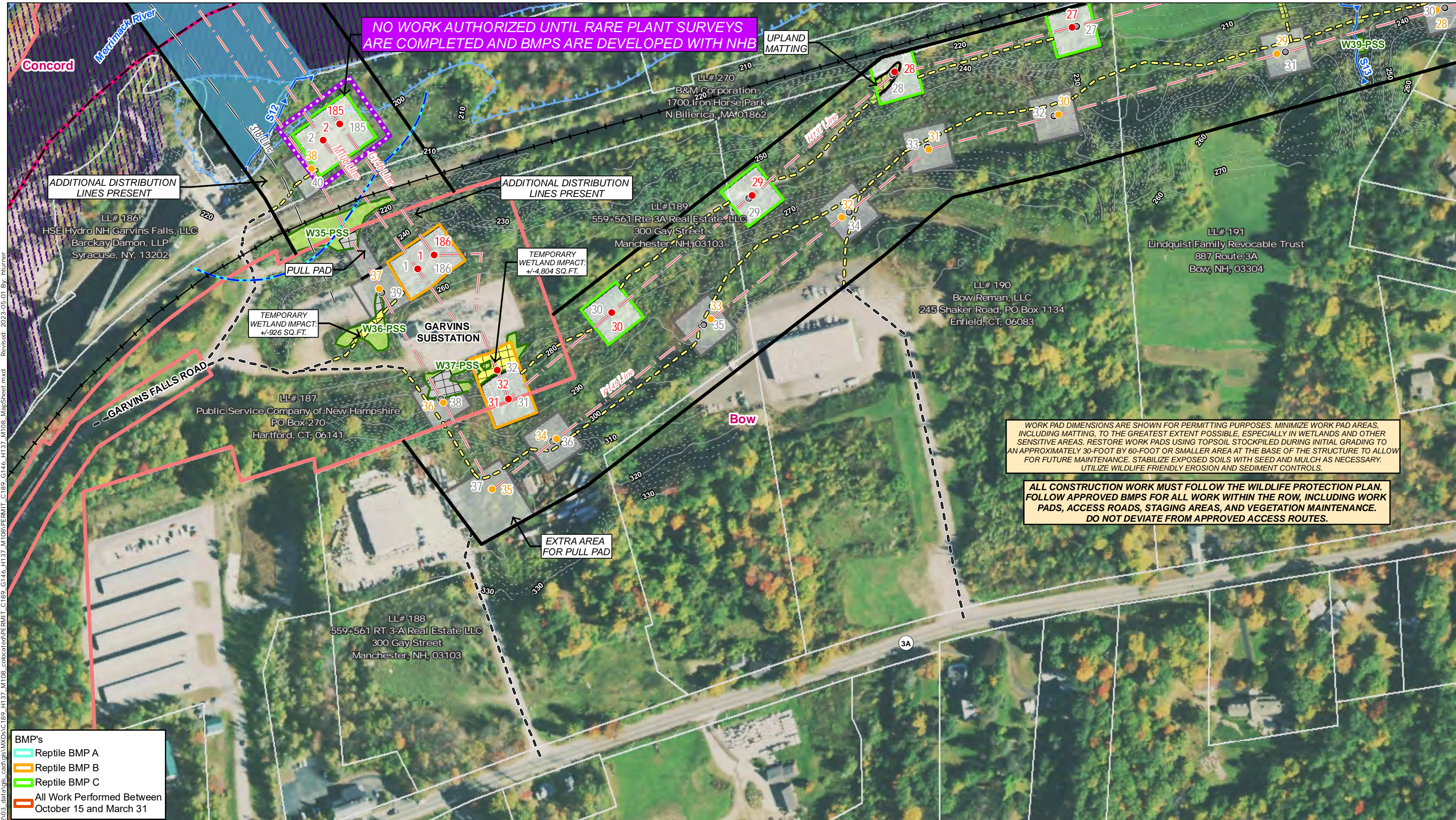


**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

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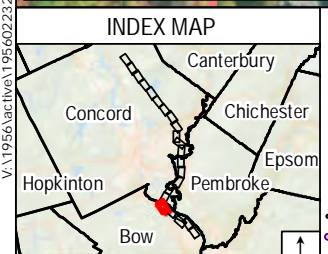


**NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS ARE COMPLETED AND BMPS ARE DEVELOPED WITH NHB**



**ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPS FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.**

- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



**Legend**

<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Proposed Structure</li> <li><span style="color: orange;">●</span> Previously Permitted Structure</li> <li><span style="color: black;">●</span> Existing Structure</li> <li><span style="border: 1px solid black; border-radius: 50%; padding: 2px;"> </span> Existing Structure to be Removed</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Distribution Structure</li> <li><span style="border: 1px solid red; padding: 2px;"> </span> Overhead Eversource Line</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Overhead Distribution Line</li> <li><span style="border: 1px solid green; padding: 2px;"> </span> Underground Distribution Line</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Existing Right-of-Way (ROW)</li> <li><span style="border: 1px dashed black; padding: 2px;"> </span> Existing Access</li> <li><span style="border: 1px dashed purple; padding: 2px;"> </span> Off-ROW Access Pending Rights</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid black; padding: 2px;"> </span> Proposed Access</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Proposed Access (Previously Permitted)</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Temporary Construction Matting</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Temporary Construction Matting (Previously Permitted)</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Stone Work Pad</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Stone Work Pad (Previously Permitted)</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Existing Gravel</li> <li><span style="border: 1px solid red; padding: 2px;"> </span> Eversource Owned Property</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> State Owned Land</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> LLN/Property Owner</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Parcel Boundary</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Municipal Boundary</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> 2' Contours</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> 10' Contours</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: blue;">*</span> Potential Vernal Pool</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Potential Vernal Pool Extent</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Vernal Pool 50R Envelope</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Delineated Perennial Stream</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Delineated Intermittent Stream</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Delineated Ephemeral Stream</li> <li><span style="border: 1px solid green; padding: 2px;"> </span> Field Delineated Wetland Boundary Outline</li> <li><span style="border: 1px solid green; padding: 2px;"> </span> Field Delineated Wetland</li> <li><span style="border: 1px solid green; padding: 2px;"> </span> Priority Resource Area</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Open Water</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid blue; padding: 2px;"> </span> FEMA 100-Year Flood Zone</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> FEMA Floodway</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> NHDES Protected Shoreland</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Railroad</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> GAS Approximate Gas Line</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Fence</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Stone Wall</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Berm</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Mobile Sub</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid black; padding: 2px;"> </span> Gate</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Culvert</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> Rare Plant Survey Not Yet Complete</li> </ul>
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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Lamine Wood Structure Replacement Project PERMIT Map Set**

Bow, NH      MAP SHEET: 18 of 23

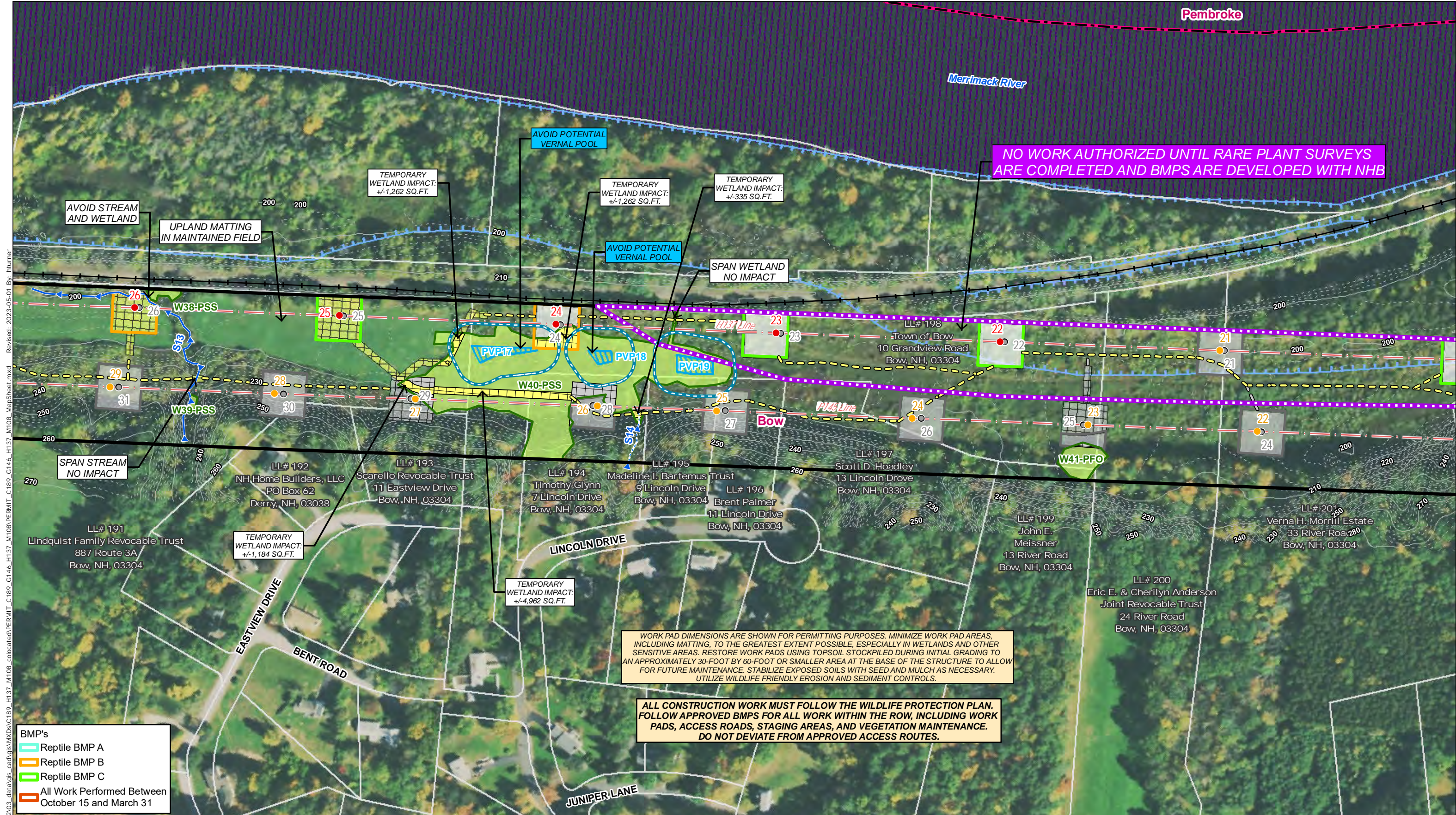
Date: May 22, 2023

**Stantec**

**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
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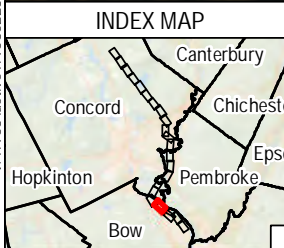
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 Revised: 2023-05-01 By: hturner



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**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31



**Legend**

<ul style="list-style-type: none"> <li><span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Proposed Structure</li> <li><span style="border: 1px solid orange; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Previously Permitted Structure</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Existing Structure</li> <li><span style="border: 1px dashed black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Existing Structure to be Removed</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Distribution Structure</li> <li><span style="border: 1px solid red; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Overhead Eversource Line</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; 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 Additional source include: NH Granit  
 Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery

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1 inch = 200 feet

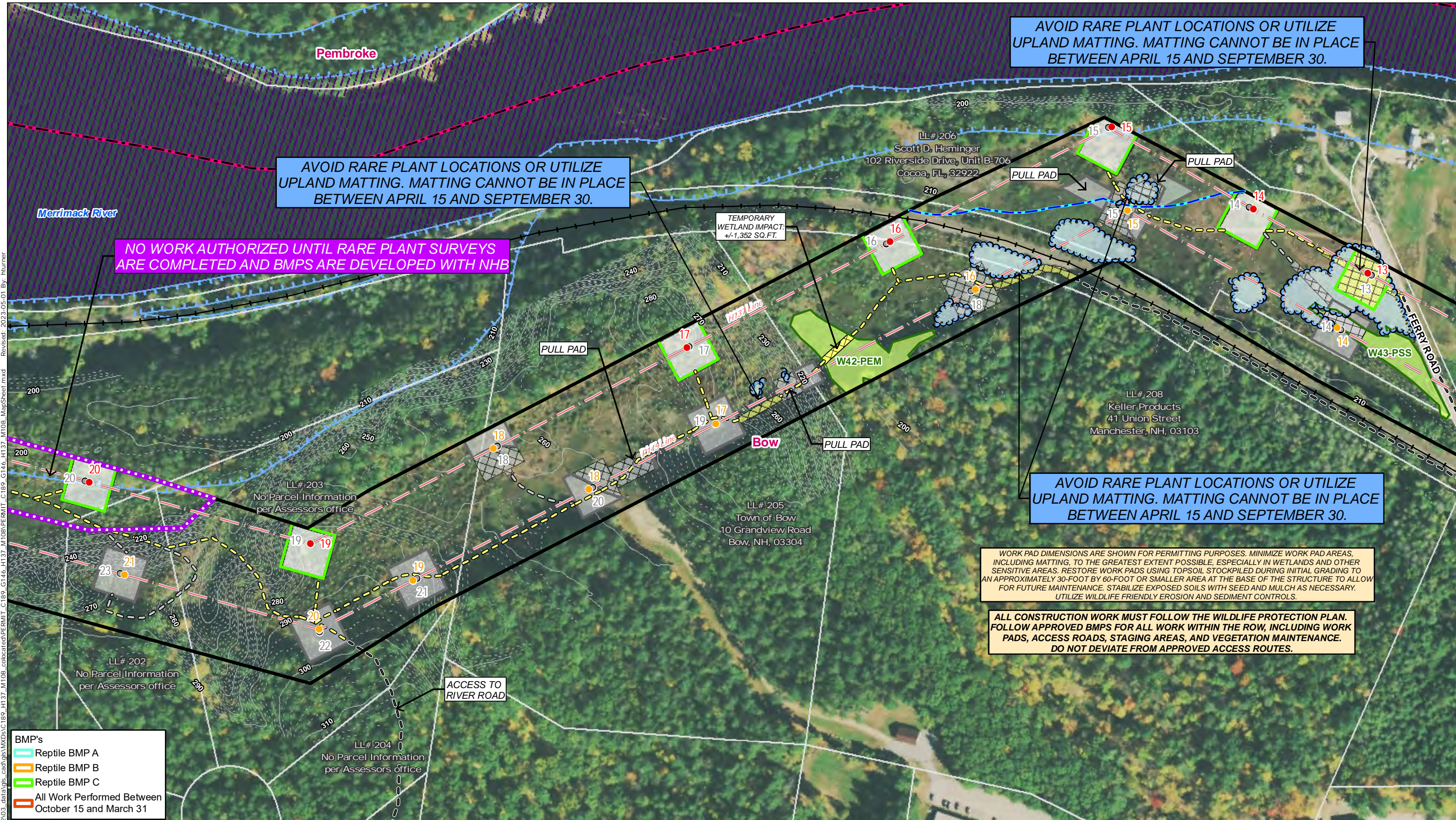


**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Bow, NH	MAP SHEET: 19 of 23
Date: May 22, 2023	

V:\1956\active\h19560223\03\_data\gis\cad\gis\MXD\03\_C189\_G146\_H137\_M108\_coblocat\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner



AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

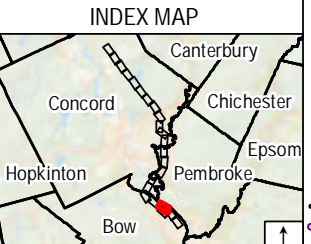
NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS ARE COMPLETED AND BMPs ARE DEVELOPED WITH NHB

AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- Proposed Structure
  - Previously Permitted Structure
  - Existing Structure
  - Existing Structure to be Removed
  - Distribution Structure
  - Existing Gravel
  - Overhead Eversource Line
  - Overhead Distribution Line
  - Underground Distribution Line
  - Existing Right-of-Way (ROW)
  - Existing Access
  - Off-ROW Access Pending Rights
  - Proposed Access
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  - Temporary Construction Matting
  - Temporary Construction Matting (Previously Permitted)
  - Stone Work Pad
  - Stone Work Pad (Previously Permitted)
  - Existing Gravel
  - Eversource Owned Property
  - State Owned Land
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  - Parcel Boundary
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  - 2' Contours
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  - Potential Vernal Pool
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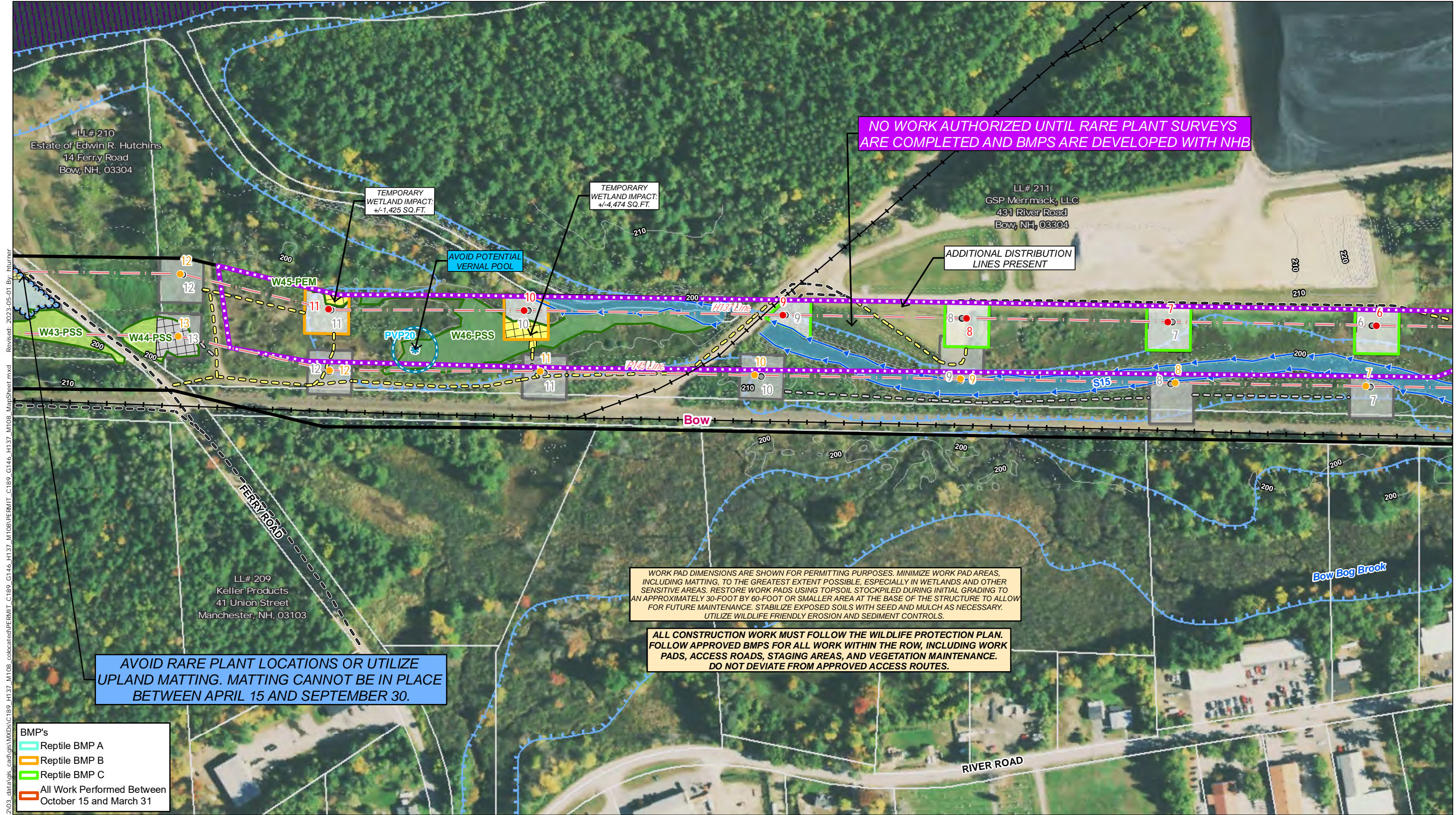
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<b>EVERSOURCE ENERGY</b>	
<b>C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set</b>	
Bow, NH	MAP SHEET: 20 of 23
Date: May 22, 2023	



V:\1956\active\19560222\03\_data\gis\cad\gis\MXDs\C189\_H137\_M108\colocated\PERMIT\_C189\_G146\_H137\_M108\MapSheet.mxd Revised: 2023-05-01 By: hturner



**NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS ARE COMPLETED AND BMPs ARE DEVELOPED WITH NHB**

TEMPORARY WETLAND IMPACT: +/-1,425 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-4,474 SQ.FT.

ADDITIONAL DISTRIBUTION LINES PRESENT

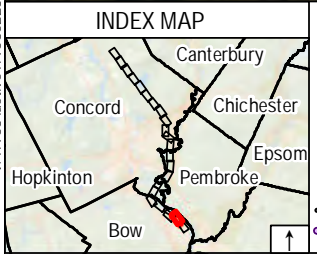
AVOID POTENTIAL VERNAL POOL

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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AVOID RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING. MATTING CANNOT BE IN PLACE BETWEEN APRIL 15 AND SEPTEMBER 30.

- BMP's**
- Reptile BMP A
  - Reptile BMP B
  - Reptile BMP C
  - All Work Performed Between October 15 and March 31



- Legend**
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                   |
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1 inch = 200 feet

**Map Notes:**  
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet  
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.  
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**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Laminate Wood Structure Replacement Project PERMIT Map Set**

Bow, NH	MAP SHEET: 22 of 23
Date: May 22, 2023	

POTENTIAL TURTLE OVERWINTERING HABITAT.  
NO MATTING INSTALLATION DURING DORMANT SEASON,  
OCTOBER 15 TO MARCH 31

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NO MATTING INSTALLATION DURING DORMANT SEASON,  
OCTOBER 15 TO MARCH 31

NO WORK AUTHORIZED UNTIL RARE PLANT SURVEYS  
ARE COMPLETED AND BMPS ARE DEVELOPED WITH NHB

LL# 211  
GSP Merrimack, LLC  
431 River Road  
Bow, NH, 03304

MERRIMACK  
SUBSTATION

TEMPORARY  
WETLAND IMPACT:  
+/-10,000 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-6,296 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-1,474 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-10,000 SQ.FT.

W52-PUB

W47-PSS

W48-PSS

W49-PSS

W50-PUB

DISTRIBUTION  
LINE

Bow

W51-PSS

FENCING PRESENT

PULL PAD  
UTILIZE EXISTING  
GRAVEL

PULL PAD

PULL PAD

TEMPORARY  
WETLAND IMPACT:  
+/-8,126 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-5,677 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-759 SQ.FT.

TEMPORARY  
WETLAND IMPACT:  
+/-386 SQ.FT.

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Bow Bog Brook

RIVER ROAD

THIBEAULT DRIVE

**BMP's**

- Reptile BMP A
- Reptile BMP B
- Reptile BMP C
- All Work Performed Between October 15 and March 31

**INDEX MAP**

**Legend**

- Proposed Structure
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- Existing Structure
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1 inch = 200 feet

**EVERSOURCE ENERGY**

**C189/G146/H137/M108 Lamine Wood Structure Replacement Project PERMIT Map Set**

Bow, NH

Date: May 22, 2023

MAP SHEET: 23 of 23

**Stantec**

STATE OF NEW HAMPSHIRE

**MATTHEW ARSENAULT**

CERTIFIED WETLAND SCIENTIST

No. 278

**Stantec**

**Stantec**

V:\1956\active\h19560223\03\_data\gis\cad\gis\MXDs\C189\_G146\_H137\_M108\_collocated\PERMIT\_C189\_G146\_H137\_M108\_MapSheet.mxd Revised: 2023-05-01 By: hturner



C189, G146, H137, M108 Laminate Wood Structure  
Replacement Project

**New Hampshire Fish and Game Recommended  
Permit Conditions**

1. Blanding's turtles (state endangered), spotted turtles (state threatened), wood turtles (state species of special concern), Northern black racer (state threatened), Eastern hognose snake (state endangered), common nighthawk (state endangered), and Fowler's toad (state threatened) occur within the vicinity of the project area. All operators and personnel working on or entering the site shall be made aware of the potential presence of these species and shall be provided flyers that help to identify these species, along with NHFG contact information. See Notes Page 2. *Include attached flyers to plan sheet set.*
2. Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG immediately and NHFG contact information) shall be posted on site at all times and communicated during morning tailgate meetings prior to work commencement.
3. **For all areas marked on plan sheets "C189/G146/H137/M108 Laminate Wood Structure Replacement Project" dated April 27, 2023 (attached) as "Karner Blue Butterfly Habitat," no work shall occur from from March 31 to November 1 in order to minimize impacts to Karner Blue Butterfly (state endangered). This area occurs from Pembroke Road through existing structure 42 on the M108 line in Concord.**
4. There shall be no direct impacts to wild lupine through soil disturbance activities or other permanent impacts.
5. **No work shall occur between Pembroke Road and proposed structure 42 on the M108 line until the following conditions are met:**
  - a. A survey for wild lupine shall be conducted along the ROW in the spring/summer 2023.
  - b. A site walk with NHFG shall be conducted.
  - c. A zoomed in plan sheet showing areas of wild lupine in the work area shall be provided to NHFG. This plan shall include all existing structures, proposed structures, access, matting, guide wires, equipment staging, and any other areas of potential disturbance.
  - d. The buffer area between wild lupine plants and disturbance will be provided to NHFG.
  - e. Further consultation with NHFG will occur based on this information, and work will not begin until there is written approval from NHFG to begin work. NHFG recommendations may be amended to reflect results of survey and site walk.
  - f. Be aware that failure to prove that permanent impacts to wild lupine will be avoided completely will result in the need for a federal permit.
6. **For all areas from M108 existing structure 38 to the Merrimack River, no work shall occur from March 31 and October 15 in order to minimize impacts to rare turtles. This includes work on other lines that falls within this segment of right-of-way.**
7. At least one qualified biological monitor shall be on-site at all times at all active work areas (including work pads, staging areas, access roads, vegetation removal/maintenance, etc.) from April 1<sup>st</sup> to October 15<sup>th</sup>. A qualified biological monitor shall be someone with training and experience in turtle and reptile identification and

handling techniques and shall operate under the guidance of a qualified herpetologist. A qualified herpetologist shall be a wildlife biologist well versed on and with extensive experience in turtle identification, life history, habitat preference, handling, and documentation, i.e. activity, sexing, aging, etc. Provide qualifications of both to NHFG.

- a. The qualified herpetologist shall be responsible for:
    - i. Searching for, identifying, documenting, reporting and relocating any state-listed herpetofauna within the work areas.
    - ii. Instructing and guiding biological monitor on matters pertaining to herpetofauna.
    - iii. Ensuring proper documentation and handling techniques are abided to by the construction personnel and the biological monitor.
    - iv. At the end of the project, the qualified herpetologist shall provide Eversource Licensing and Permitting staff a report, which includes a summary of observations, reporting logs documenting any documented state-listed species, and mapping and .shp files showing the location of any observed state-listed species. The report shall be reviewed and provided to NHFG for their records.
  - b. The biological monitor shall:
    - i. Inspect all work areas for S&E controls, the presence of state-listed species, to ensure compliance with environmental regulations and permit conditions.
    - ii. Maintain regular contact with the project's qualified herpetologist on all matters pertaining to herpetofauna protection and surveys.
    - iii. Report observations of state-listed species immediately to EL&P staff who shall in turn report those observations immediately to NHFG.
    - iv. Document field activities and observations daily.
    - v. Inspect wildlife exclusionary silt fencing.
  - c. The biological monitor or qualified herpetologist shall sweep all work areas immediately ahead of any work resulting in new ground disturbance.
8. BMPs in the document titled "C189-M108-H137-G146 Structure Replacement Project Wildlife Protection Plan" dated NHFG 4/28/23 (attached) shall be adhered to at all times during this project.
- a. BMPs related to Karner Blue Butterfly (state endangered) may change upon further consultation following 2023 surveys for wild lupine.
  - b. BMPs are subject to change based on project information gained as work is done.
9. Bridge matting or double stack matting shall be used in all wetland areas in order to minimize the chance of turtles climbing onto work locations.
- a. Any reptiles observed on bridge matting or double stack matting shall be reported to NHFG immediately.
  - b. If double stack matting cannot be used, NHFG shall be notified immediately for further coordination.
10. In all upland work areas from April 1<sup>st</sup> to October 15<sup>th</sup>, material shall be staged/placed within pre-established work pads which have been cleared for and isolated from turtle entry, and all work pads around structures shall be cleared and isolated from turtle entry with wildlife exclusion silt fence prior to work. These areas shall be cleared by a qualified biologist or herpetologist.
- a. Silt fence used for wildlife exclusion should fully enclose the work areas and should be buried to a depth no less than 6-8" and be 18" above grade with ground stakes on the active site side of the fence. Access gates shall be weighed

- down and lay flat on the ground to prevent wildlife entry. There should be no gaps between the gate and the silt fence or the gate and the ground.
- b. The enclosure gate shall remain closed during times when there is no site activity and secured prior to the end of the work day.
  - c. The silt fence wildlife enclosure and gates shall be inspected every morning prior to the start of the work day and visually inspected throughout the day. Inspections shall be performed by a trained individual. A trained individual shall be defined as any contractor who has gone through project-species protection education conducted by the qualified biologist on rare wildlife species at the site. Any minor repairs shall be repaired immediately to maintain functionality. Any gaps, breaks, open gates, or other failings (gaps below or openings) in the silt fence/wildlife exclusionary fence shall be reported to NHFG immediately for further consultation on how to proceed. All reptiles and amphibians found inside the silt fence/wildlife exclusionary fence shall be reported to NHFG immediately for further consultation on how to proceed.
  - d. If silt fence cannot be trenched in, NHFG shall be notified for further coordination.
11. All observations of Eastern Hognose snake seen at any time shall be immediately reported to the NHFG Department (Melissa Winters (603-479-1129 cell) or Brendan Clifford (603-944-0885)) for further instructions. Please attempt to photograph this species to send to us for verification. Immediate reporting of observations is critical as NHFG biologists will need to collect data on the individual.
  12. Observations of Northern black racers shall be reported immediately to the New Hampshire Fish and Game Department Nongame and Endangered Wildlife Environmental Review Program. Please contact Melissa Winters (603-479-1129) or Brendan Clifford (603-944-0885). Please include photograph with text if feasible. Observations of Northern black racers in the months of April-May and September-October may indicate the potential for a den site on or near the project site.
  13. Turtles and snakes may be attracted to disturbed ground during nesting season. Turtle nesting season occurs approximately May 15<sup>th</sup> – June 30<sup>th</sup>. Nesting areas may include work pads and access roads that are not hard pack gravel and other sandy/gravel work areas. All turtle species nests are protected by NH laws. Be aware of the potential to encounter nesting wildlife in these areas.
  14. If a nest is observed or suspected, operators shall contact Melissa Winters (603-479-1129) or Josh Megyesy (978-578-0802) at NHFG immediately for further consultation. The nest or suspected nest shall be marked (surrounding roped off or cone buffer) and avoided; this shall be communicated to all personnel onsite. Site activities shall not occur in the area surrounding the nest or suspected nest until further guidance is provided by NHFG.
  15. All matting which will be placed in waterbodies deemed suitable for hibernating rare turtles will be placed prior to the start of the inactive season (October 16-March 31) so as to prevent accidental placement atop hibernating turtles. Immediately prior to matting placement in these wetlands, the area shall be swept by a qualified biologist or herpetologist. They shall watch for signs that turtles are being disturbed in the area (ex. Heads coming above water, animals moving in water). Contact NHFG if biologist/herpetologist sees or suspects turtles in matting areas. Areas identified as suitable hibernation habitat shall be identified on plan sheets and provided to NHFG at least two weeks prior to beginning work. Biologist qualifications shall be provided to NHFG.
  16. Immediately prior to the placement of matting in wetlands not deemed suitable for hibernating rare turtles during the active season (April 1-October 15), the areas shall be cleared by a qualified biologist or herpetologist. They shall watch for signs that turtles

- are being disturbed in the area (ex. Heads coming above water, animals moving in water). Contact NHFG if biologist/herpetologist sees or suspects turtles in matting areas.
17. If project activities, including structure replacements or vegetation management, are required during the May 15 to August 31 breeding period between Loudon Road in Concord and Route 3 in Pembroke, a common nighthawk nesting survey shall be conducted prior to initiating construction. Surveys shall be conducted in accordance with New Hampshire Audubon's Common Nighthawk Guide to Identification, Monitoring, and Behavior during Nesting (April 7, 2020). This approach includes multiple (i.e., at least two) survey events spaced at least 10 days apart in June and July. A separate survey plan shall be submitted to NHFG prior to conducting field surveys.
  18. Common nighthawks nest on areas of bare ground. If common nighthawks are found nesting on the ground or are observed to display nesting behavior (on ground, hissing, broken wing display) in the vicinity of the project area, flag and rope off a 200 ft perimeter around the nest and immediately contact Melissa Winters at 603-479-1129. Project activities shall cease until there is further instruction by NHFG. Migratory bird nests are protected under NH and federal laws.
  19. Minimize work pad areas, including matting, to the greatest extent possible, especially in wetlands and other sensitive areas. Restore work pads using topsoil stockpiled during initial grading to an approximately 30-foot by 60-foot or smaller area at the base of the structure to allow for future maintenance. Stabilize exposed soils with seed and mulch as necessary.
  20. Trenches constructed for counterpoise installation shall be backfilled with the soils that were removed for the counterpoise installation and shall be allowed to revegetate with native vegetation.
  21. For all work pads, staging areas, matting, and access roads, searches and sweeps shall be conducted by a by a trained individual immediately before the start of work and movement of equipment in order to minimize the chance of animals entering an area between the sweep and work. A trained individual shall be defined as any contractor who has gone through project-species protection education conducted by the qualified biologist on rare wildlife species at the site. Provide biologist qualifications to NHFG.
  22. Vernal pools and potential vernal pools shall be flagged prior to work. Impacts to vernal pools, potential vernal pools, and a 50' no disturb vegetative buffer shall be avoided wherever possible. NHFG shall be provided detailed information about proposed impacts to vernal pools, potential vernal pools, and 50' no disturb vegetative buffers prior to work for further coordination.
  23. All work activities shall be restricted to the defined roads, construction areas, and staging areas, with no equipment or materials staged or stored outside of the defined areas as shown on plan sheets.
  24. All manufactured erosion and sediment control products, with the exception of turf reinforcement mats, utilized for, but not limited to, slope protection, runoff diversion, slope interruption, perimeter control, inlet protection, check dams, and sediment traps shall not contain plastic, or multifilament or monofilament polypropylene netting or mesh with an opening size of greater than 1/8 inches;
  25. All observations of threatened or endangered species on the project site shall be reported immediately to the NHFG nongame and endangered wildlife environmental review program by phone at 603-271-2461 and by email at [NHFGreview@wildlife.nh.gov](mailto:NHFGreview@wildlife.nh.gov), with the email subject line containing the NHB DataCheck tool results letter assigned number, the project name, and the term Wildlife Species Observation;

26. Photographs of the observed species and nearby elements of habitat or areas of land disturbance shall be provided to NHFG in digital format at the above email address for verification, as feasible;
27. In the event a threatened or endangered species is observed on the project site during the term of the permit, the species shall not be disturbed, handled, or harmed in any way prior to consultation with NHFG and implementation of corrective actions recommended by NHFG.
  - a. Site operators shall be allowed to relocate wildlife encountered if discovered within the active work zone and if in direct harm from project activities. Wildlife shall be relocated in close proximity to the capture location but outside of the work zone and in the direction the individual was heading. NHFG shall be contacted immediately if this action occurs.
28. The NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit.

Additional Recommendations:

Smooth green snakes (state species of special concern) and Northern leopard frog (state species of special concern) occur within the vicinity of the project site. All operators and personnel working on or entering the site should be made aware of the potential presence of these species and should be provided flyers that help to identify these species, along with NHFG contact information. Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG immediately and NHFG contact information) should be posted on site at all times and communicated during morning tailgate meetings prior to work commencement. See Notes Page 5.



# PLEASE REPORT RARE TURTLES

The NH Fish & Game Department is requesting observations of three turtle species that could be encountered onsite.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to NHFG Wildlife Biologist Melissa Doperalski 603-479-1129 (cell) anytime.

Please report promptly, noting specific location and date – Photographs strongly encouraged



### Blanding's turtle (state endangered)

- Large, dark/black domed shell with lighter speckles
- Distinct yellow throat/chin
- Aquatic but often moves on land



### Wood turtle (special concern)

- Sculpted, pyramidal brownish shell
- Orange around neck and limbs
- River/stream turtle spending many months on land



### Spotted turtle (state threatened)

- Small, mostly aquatic with black or dark brown with yellow spots.
- Fairly flat shell compared to Blanding's turtle



## REPORT EASTERN HOGNOSE SNAKE OBSERVATIONS

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to NHFG Wildlife Biologist Melissa Doperalski 603-479-1129 (call or text) anytime.

*Please report promptly, noting specific location and date – Photographs strongly encouraged*

- Black, gray or patterned appearance
- Uprturned snout
- Adults are 2-3 ft. long
- May spread neck out or hiss
- May play dead if they feel threatened.
- Rarely bite – display is a defense strategy
- Can be found in a variety of habitats throughout the season









# REPORT OBSERVATIONS

## Smooth Green Snake

### (Species of Special Concern)

Report sightings to NHFG Wildlife Division at [NHFGReview@wildlife.nh.gov](mailto:NHFGReview@wildlife.nh.gov)

*Reference NHB# and project name if applicable.*

*Please report promptly, noting specific location and date.*

*Photographs strongly encouraged.*



- Thin, bright green snake
- 10-20 inches long
- White or pale yellow underside
- Found in open or lightly forested habitats such as grassy fields, meadows, blueberry barrens, and forest openings
- Dead individuals turn blue



# REPORT OBSERVATIONS OF COMMON NIGHTHAWKS



The NH Fish & Game Department is requesting observations of Common Nighthawk that could be encountered onsite.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to NHFG Wildlife Biologist Melissa Doperalski 603-479-1129 (cell) anytime.

Please report promptly, noting specific location and date – Photographs strongly encouraged



Photo credit: Rebecca Suomala

- **State Endangered**
  - Possession and take prohibited
  - Nests protected
- Medium-sized bird (about the size of a dove) ~ 9 inches from tip to end of tail
- Wingspan is 21-22 inches
- Well camouflaged with mottling pattern of browns, black and grey
- Distinct, broad, white patch on underside of each outer wing (visible when flying)
- “peent” – sounding call



Photo credit: Pam Hunt

- Nesting occurs typically between mid-late May and early August
- Nests usually consists of 2 eggs that are dark and speckled
- May have more than 1 nest in a season
- Nest is not “built” but rather eggs are laid directly on the ground in an open area (gravel, bare dirt, pea stone, bark/mulch)
- Incubation is for 16-20 days – another 30 plus days for fledging



Photo credit: Stephanie Parkinson

- An adult doing a broken wing display if driven from the nest.
- Adults may also hiss and open their mouth at you if in distress.

**Loudon Road to Pembroke Road: Nighthawk surveys must be performed prior to any work if work is anticipated to occur between May and August. If common nighthawks are found nesting on the ground or are observed to display nesting behavior (on ground, hissing, broken wing display) in the vicinity of the project area, flag and rope off a 200 ft perimeter around the nest and immediately contact Melissa Winters at 603-479-1129. Project activities shall cease until there is further instruction by NHFG.**