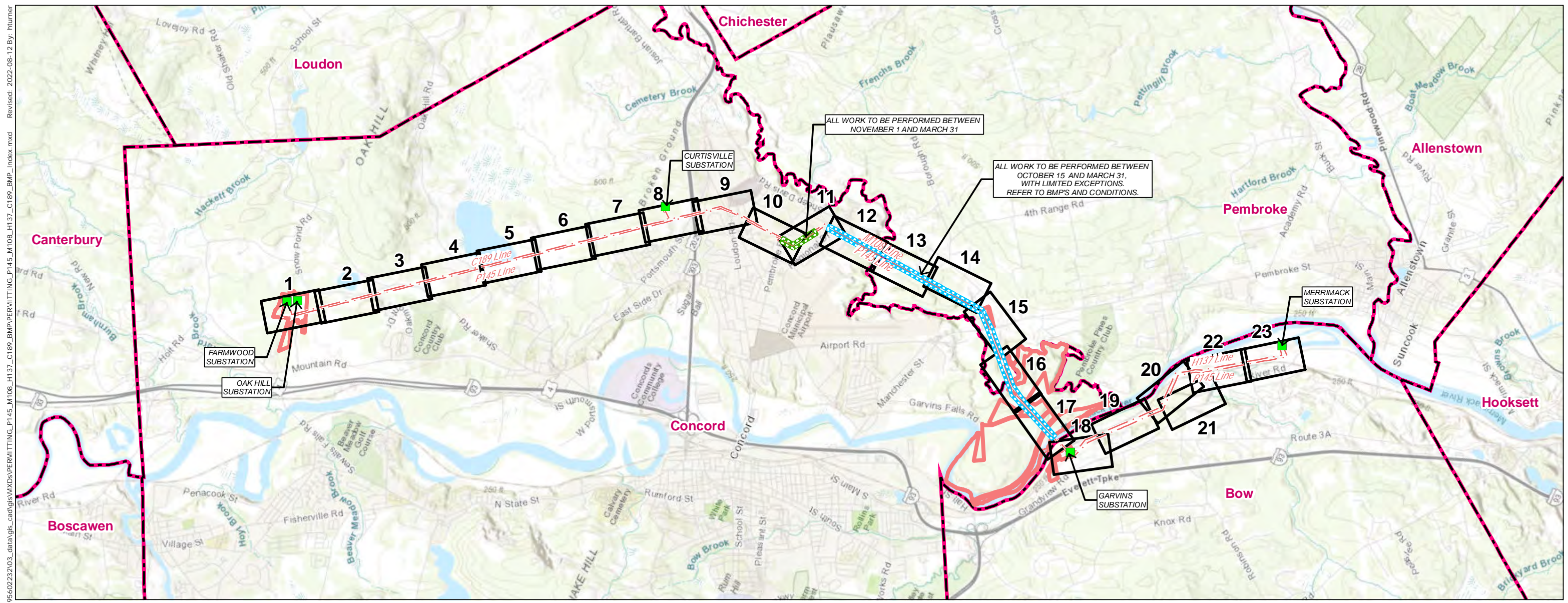


P145 Rebuild and H137/M108/C189 Structure Replacement

Concord, Pembroke, Bow, NH
Environmental Resources Map

PERMITTING Map Set

Date: August 12, 2022

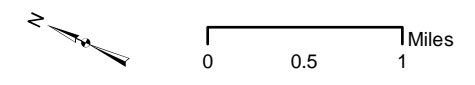


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- Legend**
- Substation
 - Map Sheet
 - Eversource Owned Property
 - Karner Blue Butterfly Habitat
 - Rare Species Area
 - Overhead Eversource Line
 - Municipal Boundary

PREPARED FOR:
EVERSOURCE
ENERGY

107 Selden Street
Berlin, CT 06037



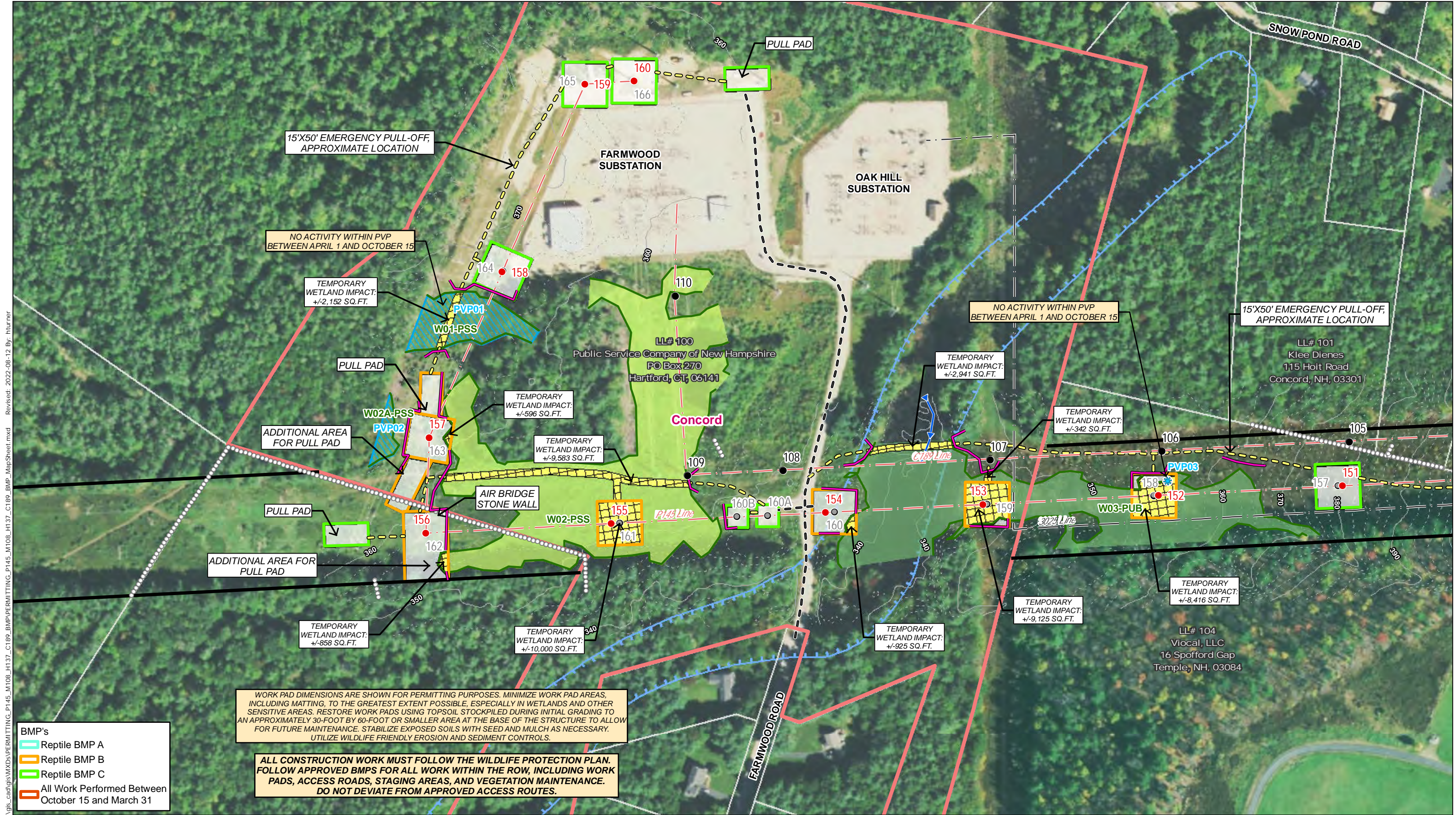
INDEX OF FIGURES
Title Sheet / Index Map
Map Sheets 1-23

NO.	DATE	REVISIONS

PREPARED BY:
Stantec

30 Park Drive
Topsham, ME 04086

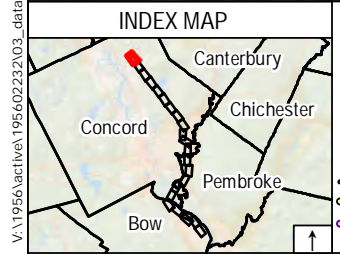
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 Revised: 2022-08-12 By: hturner



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.

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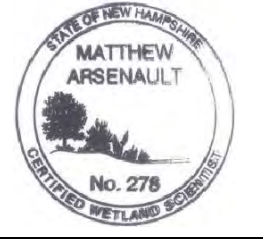
- BMP's**
- Reptile BMP A
 - Reptile BMP B
 - Reptile BMP C
 - All Work Performed Between October 15 and March 31



Legend

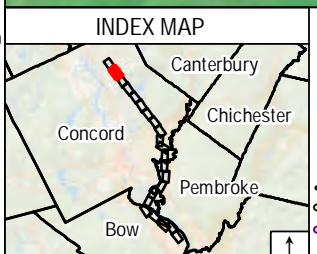
<ul style="list-style-type: none"> ● Proposed Structure ● Existing Structure ● Existing Structure to be Removed — Overhead Eversource Line — Overhead Distribution Line — Underground Distribution Line — Existing Right-of-Way (ROW) — Existing Access — Proposed Access — Off-ROW Access Pending Rights 	<ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours 	<ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water 	<ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad - GAS Approximate Gas Line Fence Stone Wall Berm Gate Culvert 	<ul style="list-style-type: none"> Rare Species Kamer Blue Butterfly Habitat
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1 inch = 200 feet
 0 50 100 200 Feet
Map Notes:
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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Concord, NH		MAP SHEET	
Date: August 12, 2022		1 of 23	

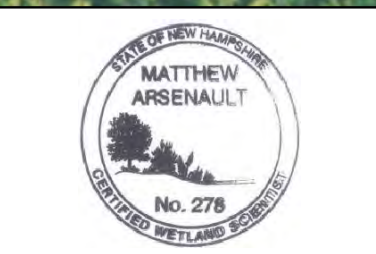
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Legend

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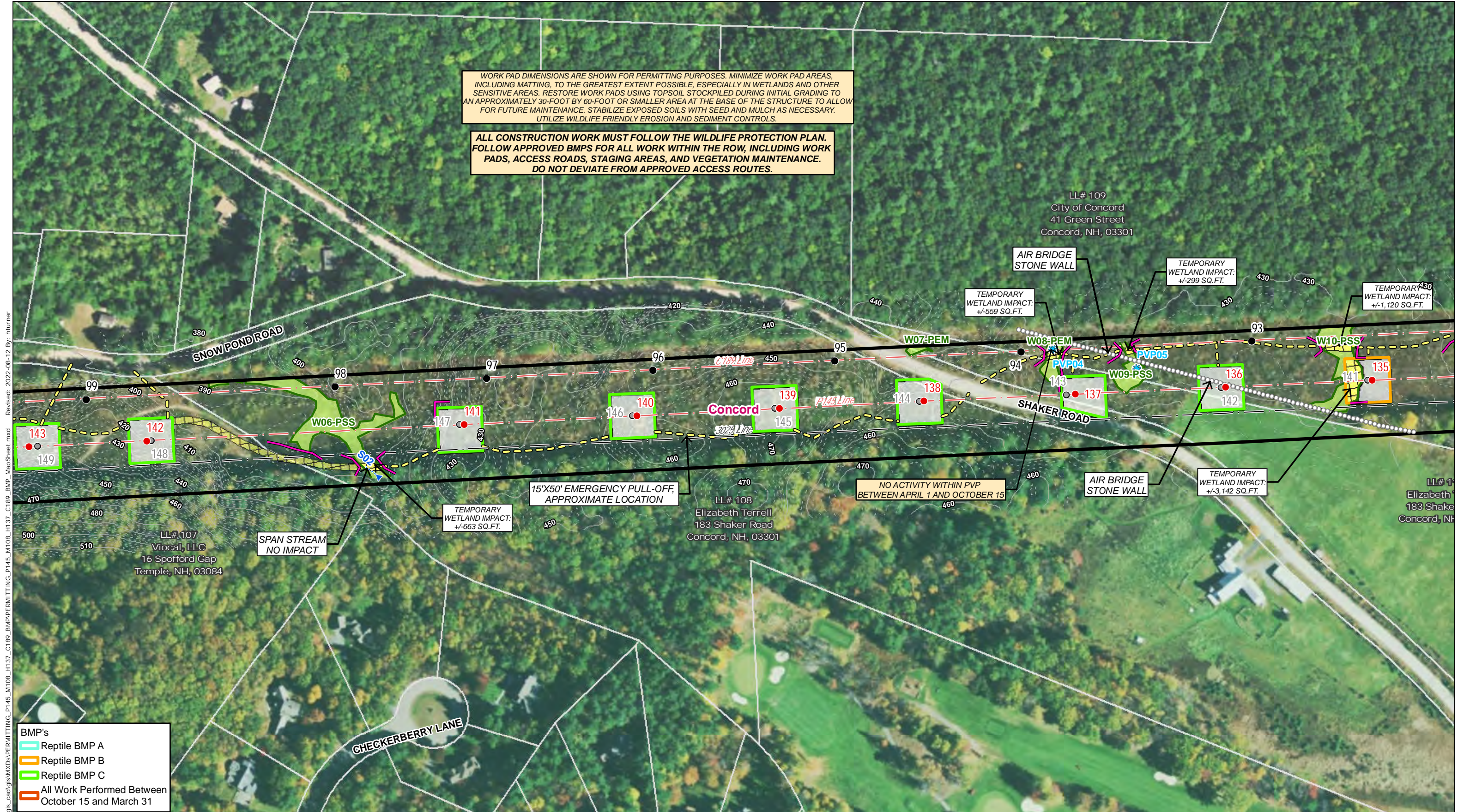


EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set		
Concord, NH	MAP SHEET	
Date: August 12, 2022	2 of 23	

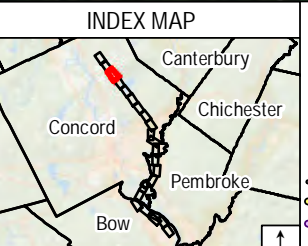
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 Revisd: 2022-08-12 By: hturner

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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**
- Proposed Structure
 - Existing Structure
 - Existing Structure to be Removed
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Existing Access
 - Proposed Access
 - Off-ROW Access Pending Rights
 - Temporary Construction Matting
 - Stone Work Pad
 - Existing Gravel
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 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - Sediment Control Barrier
 - 2' Contours
 - 10' Contours
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 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
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 - FEMA Floodway
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 - GAS Approximate Gas Line
 - Fence
 - Stone Wall
 - Berm
 - Gate
 - Culvert
 - Rare Species
 - Kamer Blue Butterfly Habitat

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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
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NO ACTIVITY WITHIN PVP BETWEEN APRIL 1 AND OCTOBER 15

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-977 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-9,214 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-8,559 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-860 SQ.FT.

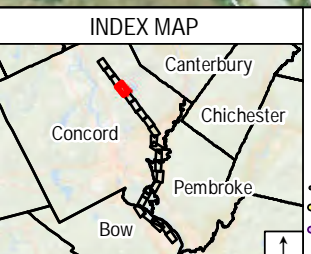
PULL PAD

SPAN STREAM NO IMPACT

TEMPORARY WETLAND IMPACT: +/-6,889 SQ.FT.

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



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EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set		
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 - All Work Performed Between October 15 and March 31

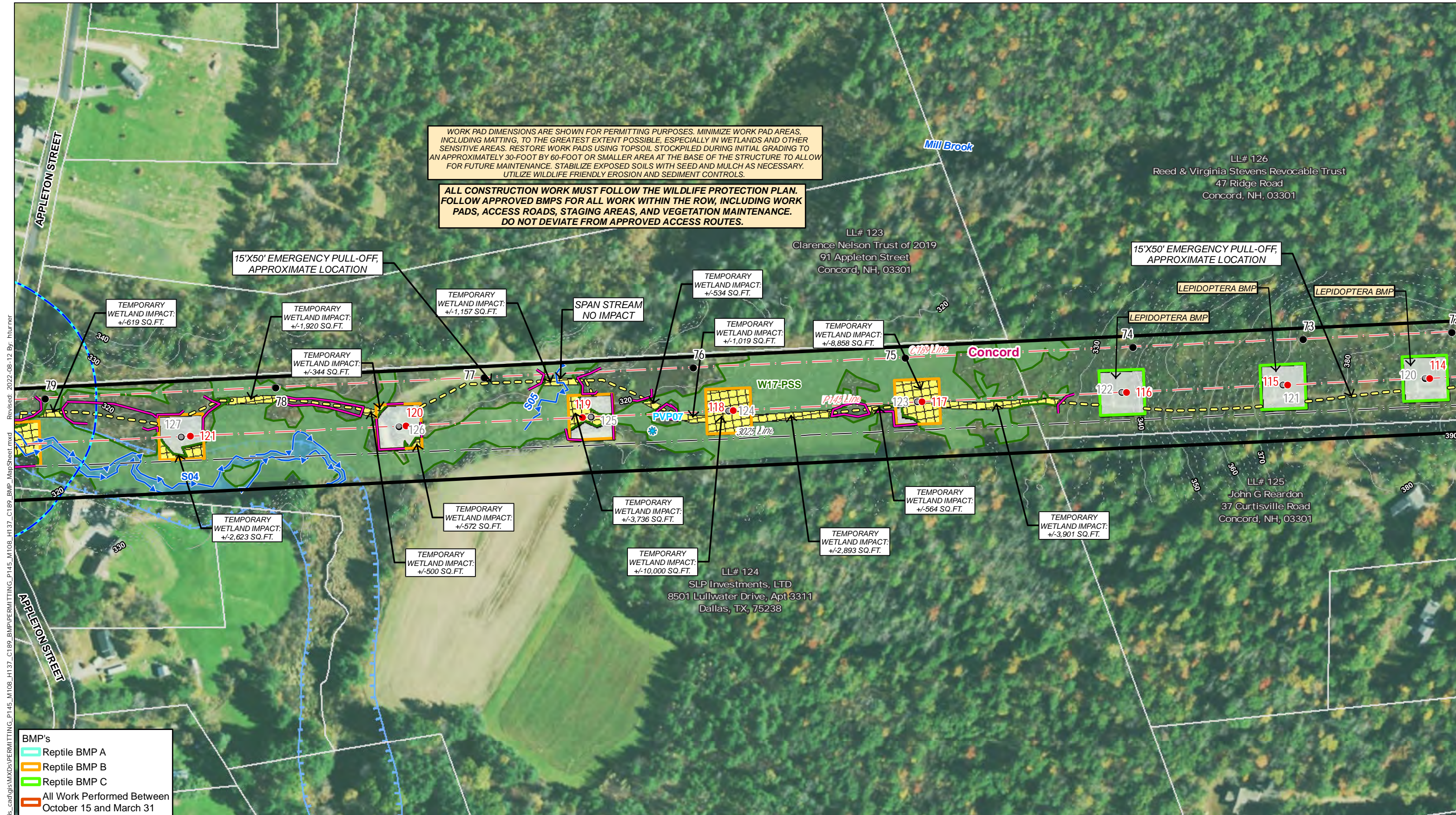
Legend

- | | | | | |
|---|--|--|--|--|
| <ul style="list-style-type: none"> ● Proposed Structure ● Existing Structure ● Existing Structure to be Removed — Overhead Eversource Line — Overhead Distribution Line — Underground Distribution Line — Existing Right-of-Way (ROW) — Existing Access — Proposed Access — Off-ROW Access Pending Rights | <ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours | <ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water | <ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad - GAS Approximate Gas Line Fence Stone Wall Berm Gate Culvert | <ul style="list-style-type: none"> Rare Species Kamer Blue Butterfly Habitat |
|---|--|--|--|--|

1 inch = 200 feet
 0 50 100 200 Feet
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EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set		
Concord, NH	MAP SHEET	
Date: August 12, 2022	5 of 23	



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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-619 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,920 SQ.FT.

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

SPAN STREAM NO IMPACT

TEMPORARY WETLAND IMPACT: +/-534 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,019 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-8,858 SQ.FT.

LEPIDOPTERA BMP

LEPIDOPTERA BMP

LEPIDOPTERA BMP

TEMPORARY WETLAND IMPACT: +/-2,623 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-500 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-572 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,736 SQ.FT.

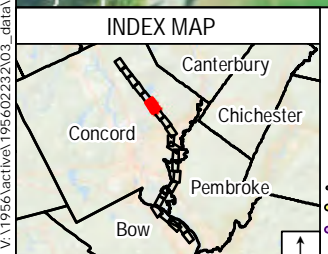
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,893 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-564 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,901 SQ.FT.

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

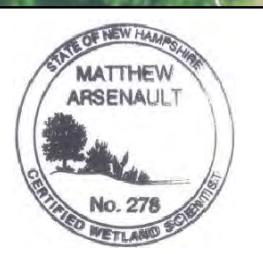


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EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set		
Concord, NH	MAP SHEET	
Date: August 12, 2022	6 of 23	

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 Revised: 2022-08-12 By: hturner

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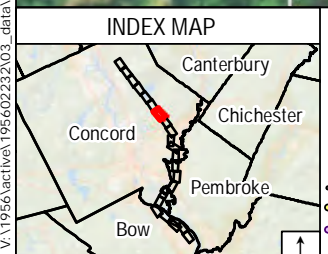
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LL# 128
Unitil Energy Systems, Inc.
6 Liberty Lane W
Hampton, NH, 03842



BMP's

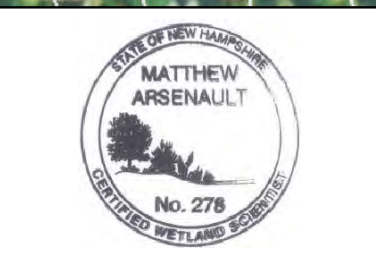
- Reptile BMP A
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- All Work Performed Between October 15 and March 31



Legend

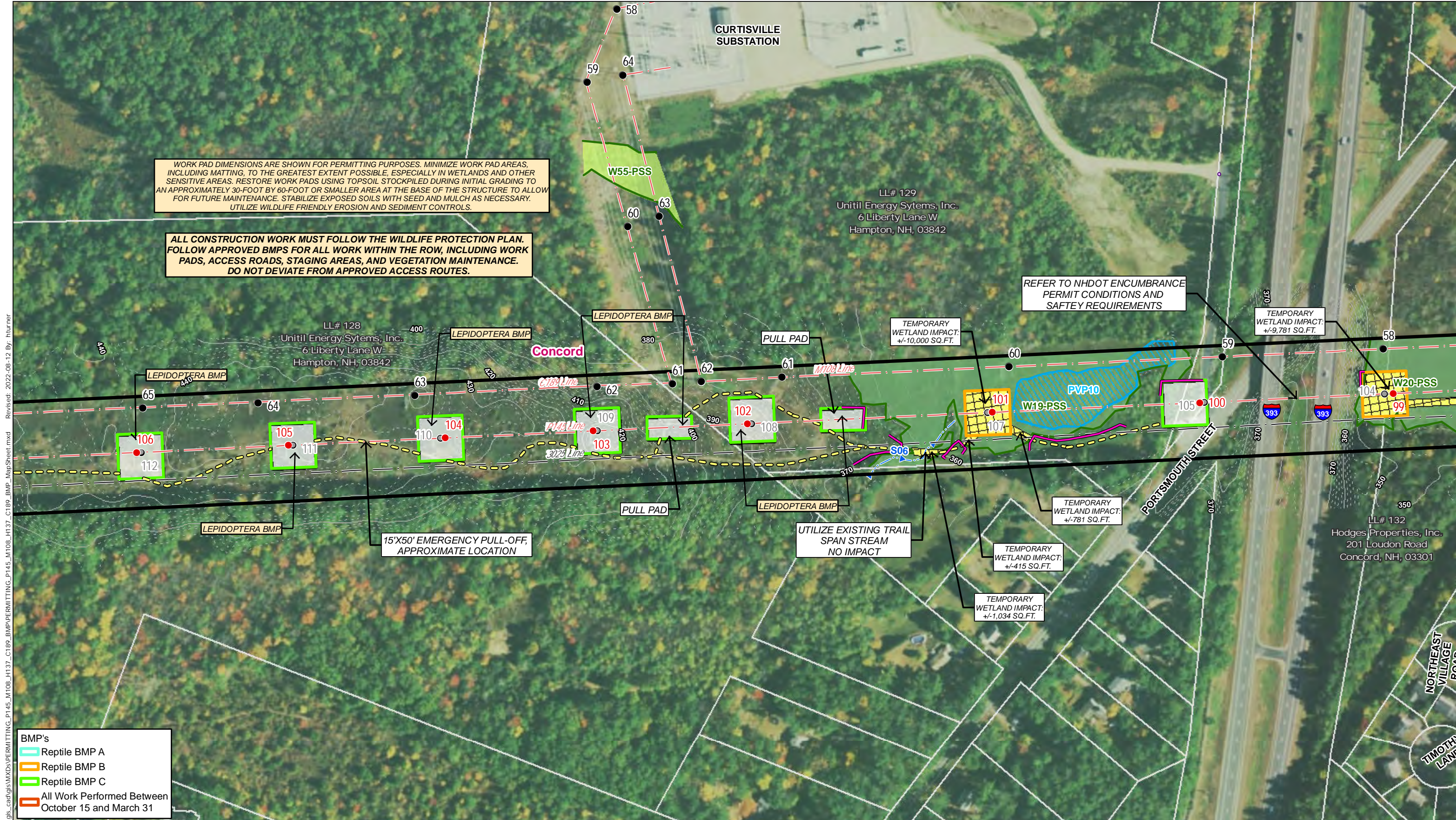
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 Revised: 2022-08-12 By: hturner



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.

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REFER TO NHDOT ENCUMBRANCE PERMIT CONDITIONS AND SAFETY REQUIREMENTS

TEMPORARY WETLAND IMPACT: +/-9,781 SQ.FT.

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

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

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

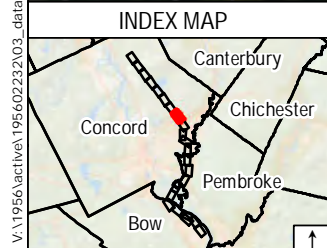
TEMPORARY WETLAND IMPACT: +/-1,034 SQ.FT.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

UTILIZE EXISTING TRAIL SPAN STREAM NO IMPACT

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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

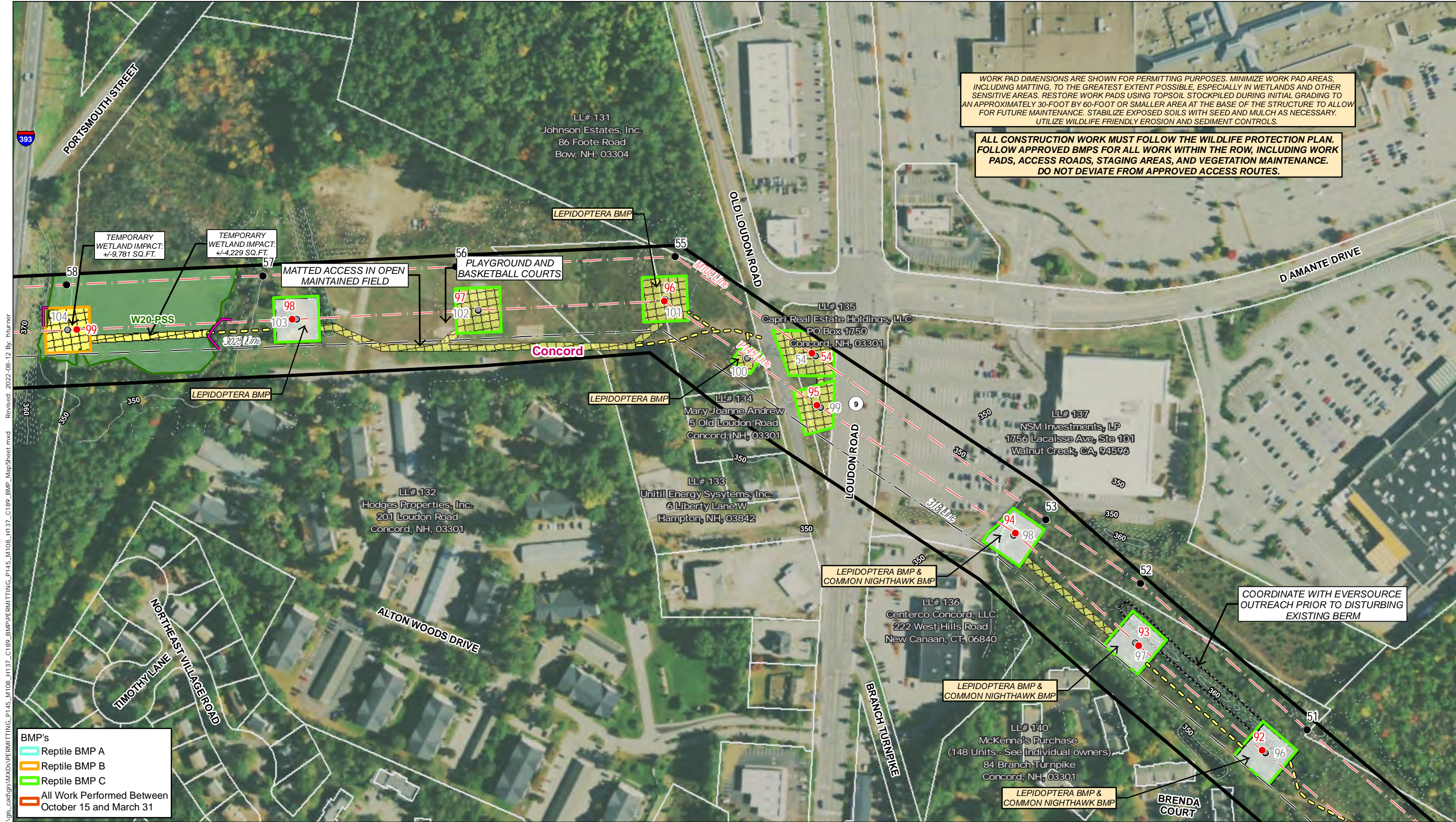
<ul style="list-style-type: none"> ● Proposed Structure ● Existing Structure ● Existing Structure to be Removed — Overhead Eversource Line — Overhead Distribution Line — Underground Distribution Line — Existing Right-of-Way (ROW) — Existing Access — Proposed Access — Off-ROW Access Pending Rights 	<ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours 	<ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water 	<ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad - GAS Approximate Gas Line Fence Stone Wall Berm Gate Culvert 	<ul style="list-style-type: none"> Rare Species Kamer Blue Butterfly Habitat
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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
 0 50 100 200 Feet



EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
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Date: August 12, 2022		8 of 23	

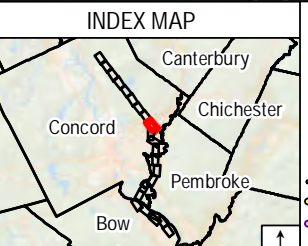


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 Revised: 2022-08-12 By: hturner

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



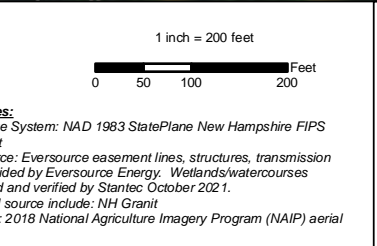
- Legend**
- Proposed Structure
 - Existing Structure
 - Existing Structure to be Removed
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Existing Access
 - Proposed Access
 - Off-ROW Access Pending Rights

- Temporary Construction Matting
- Stone Work Pad
- Existing Gravel
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- Sediment Control Barrier
- 2' Contours
- 10' Contours

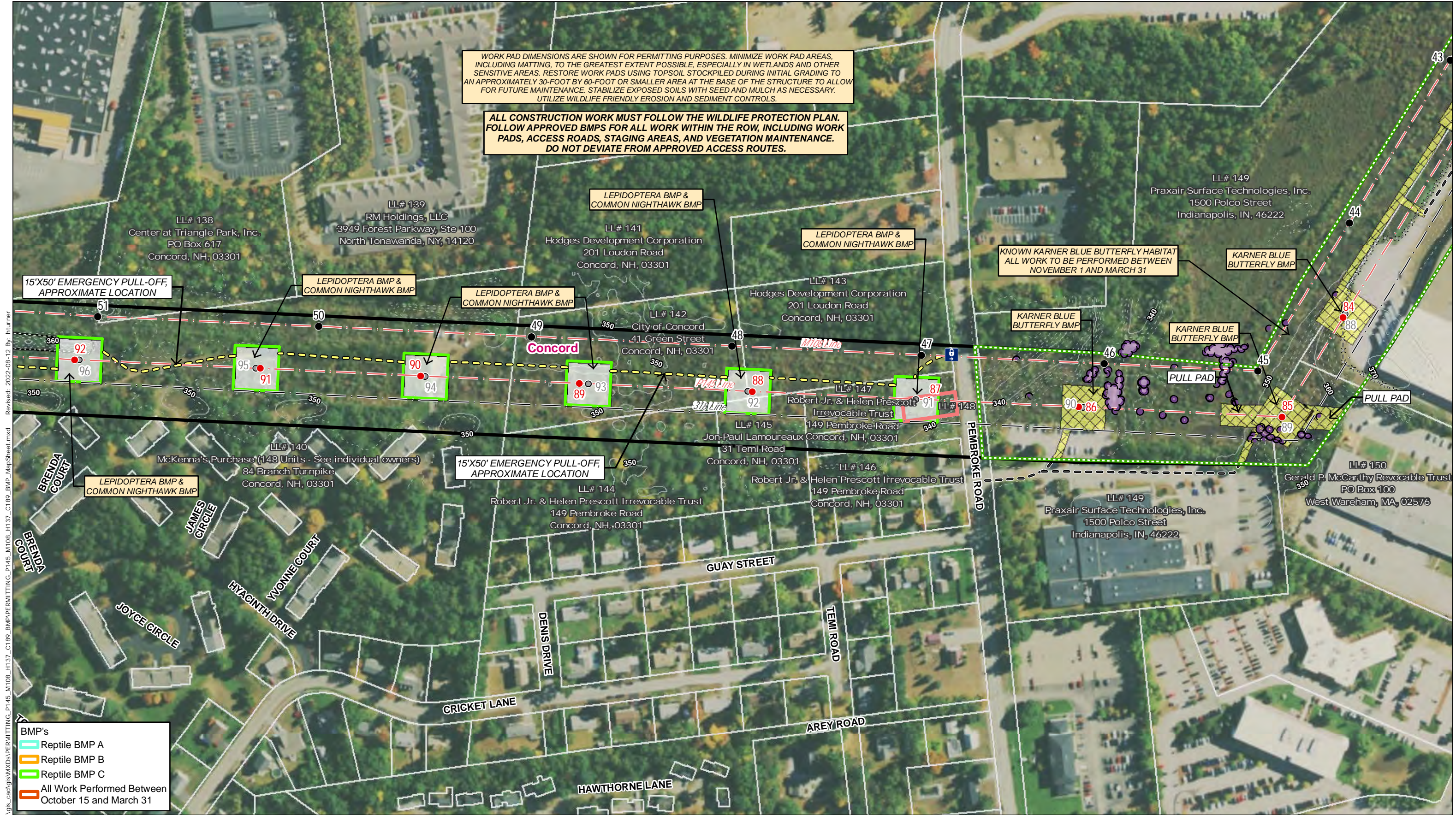
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Field Delineated Wetland Boundary Outline
- Field Delineated Wetland
- Priority Resource Area
- Open Water

- FEMA 100-Year Flood Zone
- FEMA Floodway
- NHDES Protected Shoreland
- Railroad
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Berm
- Gate
- Culvert

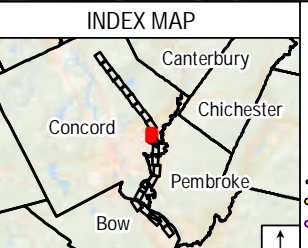
- Rare Species
 - Kamer Blue Butterfly Habitat
- This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.*



EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set		
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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**
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 - Fence
 - Stone Wall
 - Berm
 - Gate
 - Culvert
 - Rare Species
 - Kamer Blue Butterfly Habitat
 - Wild Lupine

1 inch = 200 feet

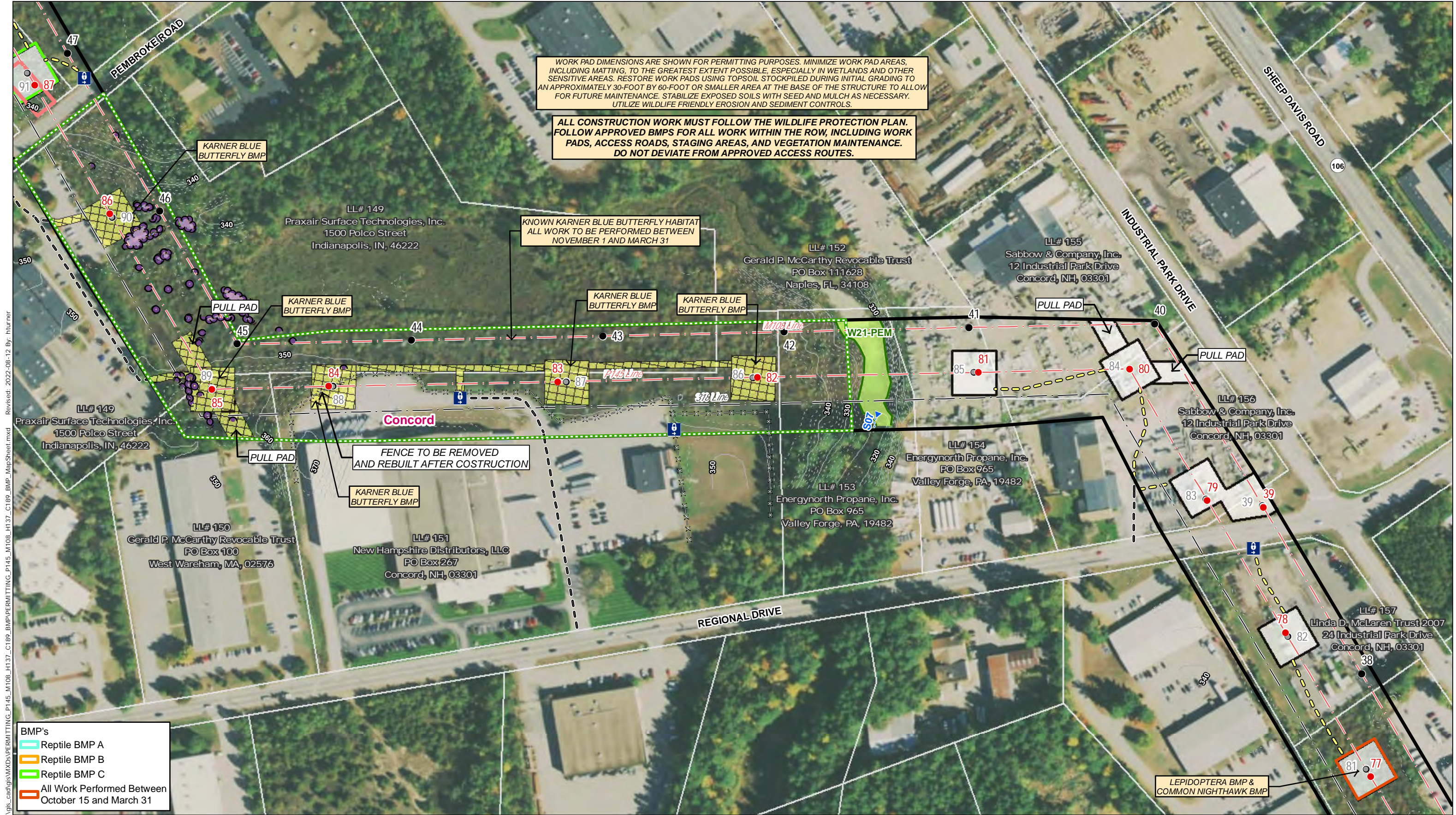
0 50 100 200 Feet

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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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set	
Concord, NH	MAP SHEET
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 Revisd: 2022-08-12 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.

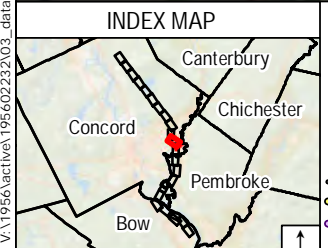
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KNOWN KARNER BLUE BUTTERFLY HABITAT
ALL WORK TO BE PERFORMED BETWEEN
NOVEMBER 1 AND MARCH 31

FENCE TO BE REMOVED
AND REBUILT AFTER COSTRUCTION

LEPIDOPTERA BMP &
COMMON NIGHTHAWK BMP

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



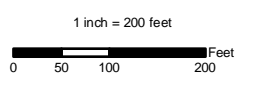
- Legend**
- Proposed Structure
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- Berm
- Gate
- Culvert

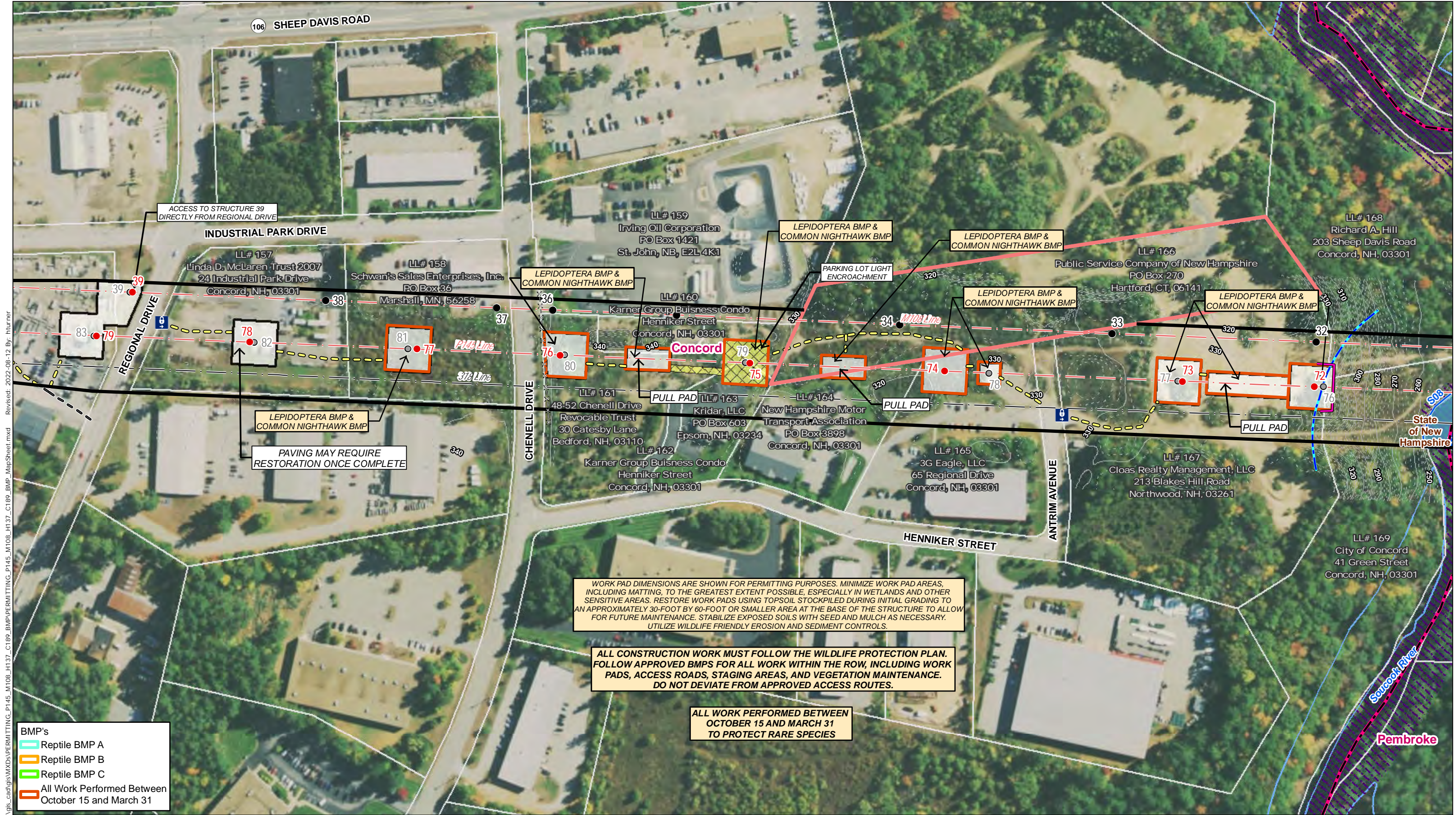
- Rare Species
- Karner Blue Butterfly Habitat
- Wild Lupine



Map Notes:
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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Concord, NH		MAP SHEET	
Date: August 12, 2022		11 of 23	

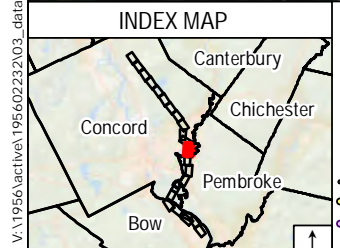


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ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

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

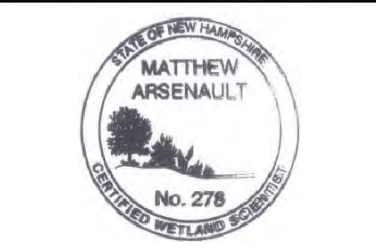


- Legend**
- Proposed Structure
 - Existing Structure
 - Existing Structure to be Removed
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 - Existing Gravel
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 - State Owned Land
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 - Parcel Boundary
 - Municipal Boundary
 - Sediment Control Barrier
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 - 10' Contours
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 - Potential Vernal Pool Extent
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 - FEMA 100-Year Flood Zone
 - FEMA Floodway
 - NHDES Protected Shoreland
 - Railroad
 - - GAS Approximate Gas Line
 - Fence
 - Stone Wall
 - Berm
 - Gate
 - Culvert
 - Rare Species
 - Kamer Blue Butterfly Habitat

Scale: 1 inch = 200 feet

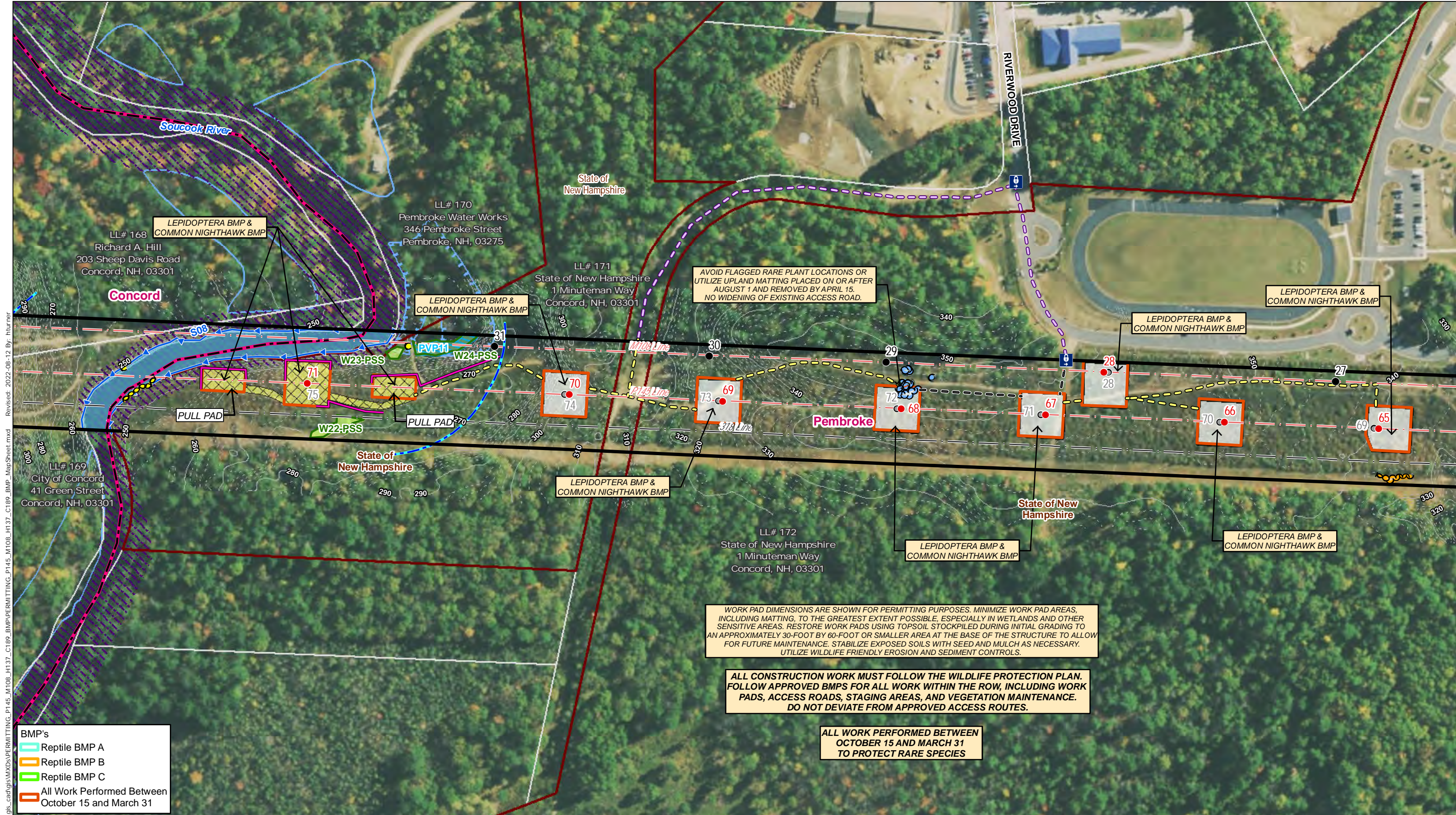
Map Notes:
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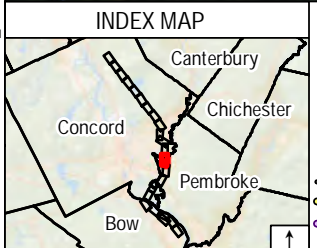
EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Concord, NH		MAP SHEET	
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 Revised: 2022-08-12 By: hturner



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- BMP's**
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- Berm
- Gate
- Culvert



 MATTHEW ARSENAULT No. 278 CERTIFIED WETLAND SCIENTIST	EVERSOURCE ENERGY Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set	
Pembroke & Concord, NH	MAP SHEET
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ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

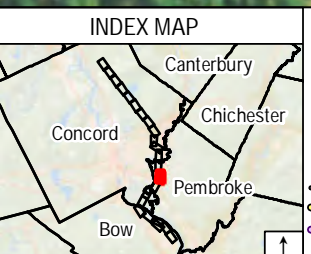
15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

PLACE UPLAND MATTING FOLLOWING FIRST FROST EVENT AND REMOVE BY MAY 1

AVOID RARE PLANTS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER OCTOBER 1 AND REMOVED BY JULY 1.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

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



- Legend**
- Proposed Structure
 - Existing Structure
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 - Berm
 - Gate
 - Culvert
 - Rare Species
 - Kamer Blue Butterfly Habitat
 - Wild Lupine
 - Licorice Goldenrod
 - Dry Land Sedge
 - Red Threewain

1 inch = 200 feet

0 50 100 200 Feet

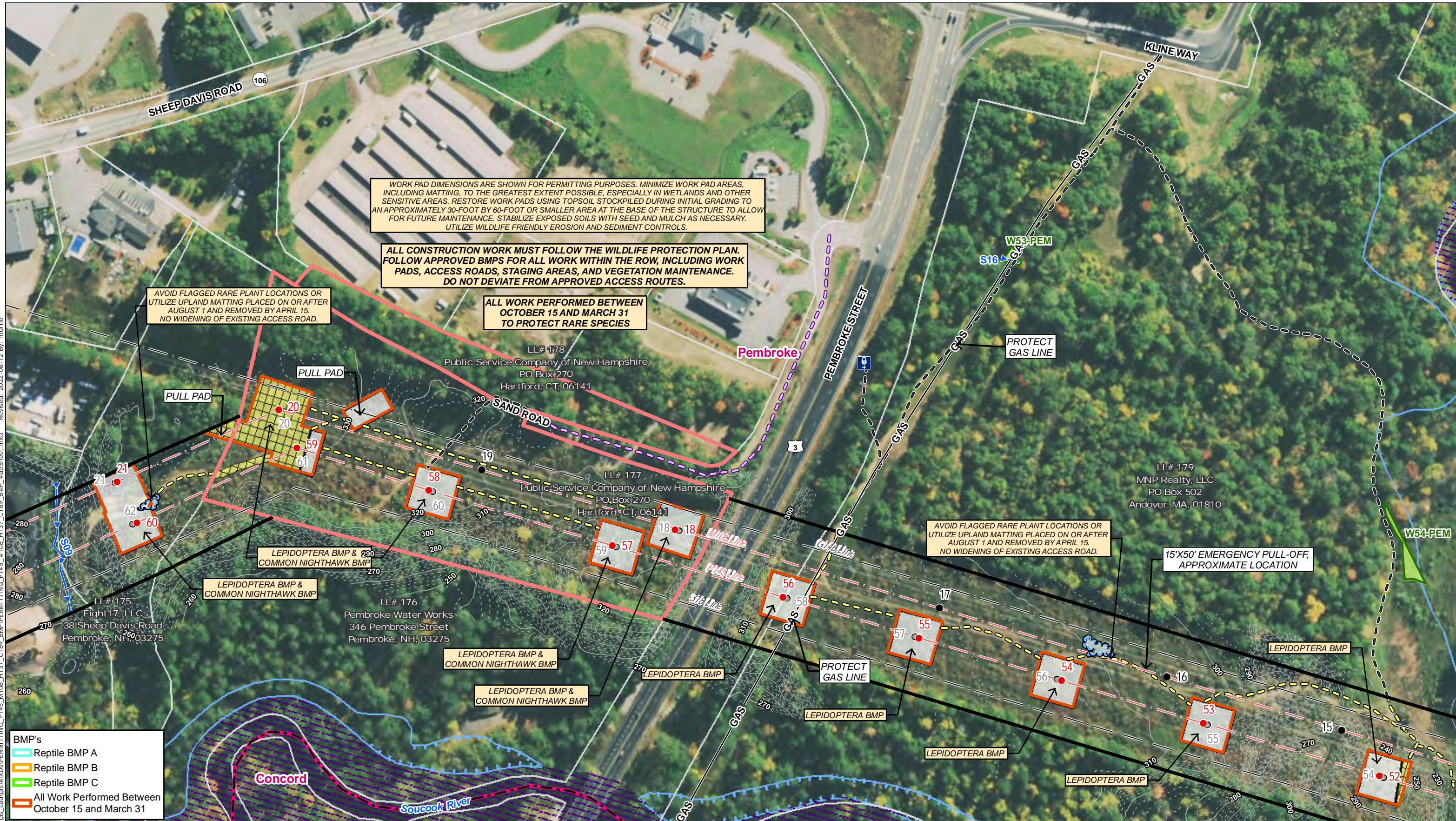
Map Notes:
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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
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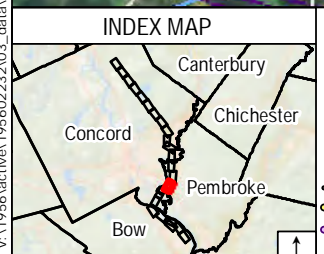
ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

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

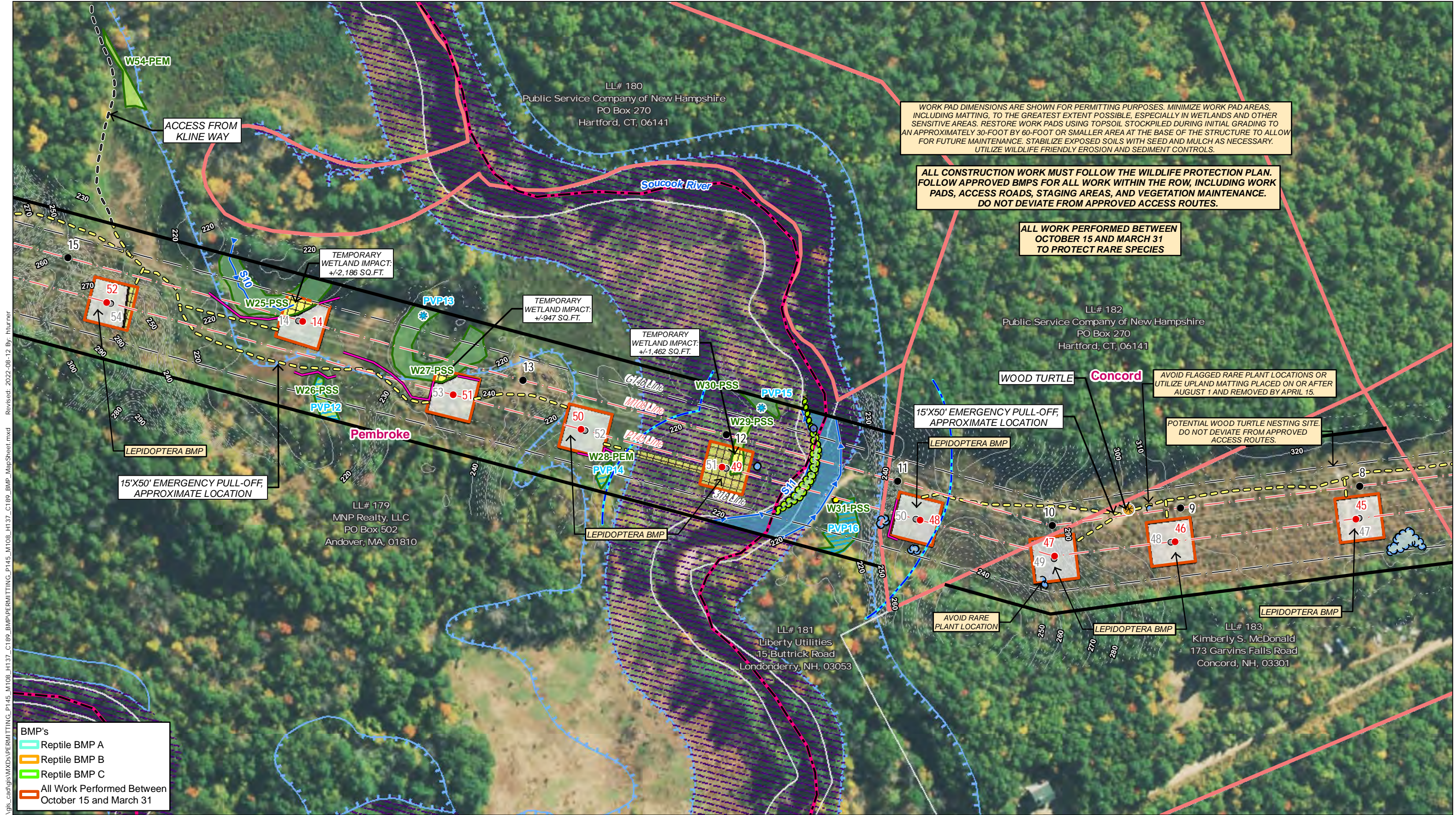


- Legend**
- | | | | | |
|--|--|--|---|---|
| <ul style="list-style-type: none"> Proposed Structure Existing Structure Existing Structure to be Removed Overhead Eversource Line Overhead Distribution Line Underground Distribution Line Existing Right-of-Way (ROW) Existing Access Proposed Access Off-ROW Access Pending Rights | <ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours | <ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water | <ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad -GAS Approximate Gas Line Fence Stone Wall Berm Gate Culvert | <ul style="list-style-type: none"> Rare Species Kame Blue Butterfly Habitat Dry Land Sedge |
|--|--|--|---|---|

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.
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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set	
Pembroke, NH	MAP SHEET
Date: August 12, 2022	15 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.

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ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15.

POTENTIAL WOOD TURTLE NESTING SITE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

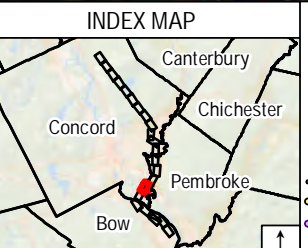
15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

AVOID RARE PLANT LOCATION

V:\1956\active\19560223\03_data\gis\can\gis\mxd\PERMITTING_P145_M108_H137_C189_BMP\PERMITTING_P145_M108_H137_C189_BMP_MapSheet.mxd
 Revised: 2022-08-12 By: hturner

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



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

- Temporary Construction Matting
- Stone Work Pad
- Existing Gravel
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- Sediment Control Barrier
- 2' Contours
- 10' Contours

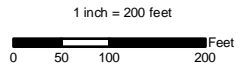
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
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- Field Delineated Wetland
- Priority Resource Area
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- FEMA 100-Year Flood Zone
- FEMA Floodway
- NHDES Protected Shoreland
- Railroad
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Berm
- Gate
- Culvert

- Rare Species
- Kame Blue Butterfly Habitat
- Dry Land Sedge
- Hollow Joe-Pye Weed
- Incurved Umbrella Sedge
- Red-root Umbrella Sedge

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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Concord & Pembroke, NH		MAP SHEET	
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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

150'X75' MOBILE YARD AND TAPS

20' WIDE UNDERGROUND DISTRIBUTION FEEDER

TEMPORARY WETLAND IMPACT: +/-230 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-920 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-653 SQ.FT.

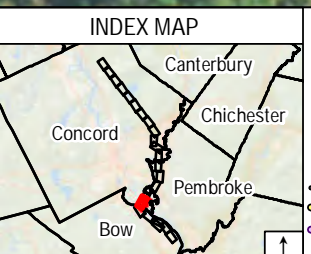
UTILIZE EXISTING WORK PAD AREAS AS STAGING AREAS ONLY, FOLLOW BMP'S

UTILIZE MATTING TO PROTECT AREA OF ARCHAEOLOGICAL SENSITIVITY

UTILIZE EXISTING WORK PAD AREAS AS STAGING AREAS ONLY, FOLLOW BMP'S

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- BMP's**
- Reptile BMP A
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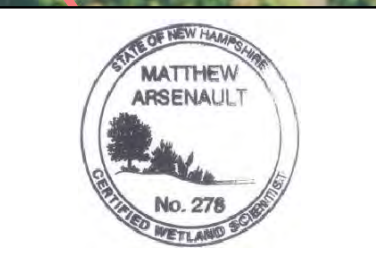


- Legend**
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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set	
Bow & Concord, NH	MAP SHEET
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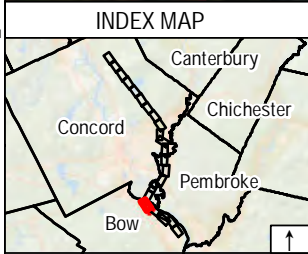


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 Revised: 2022-08-12 By: hturner

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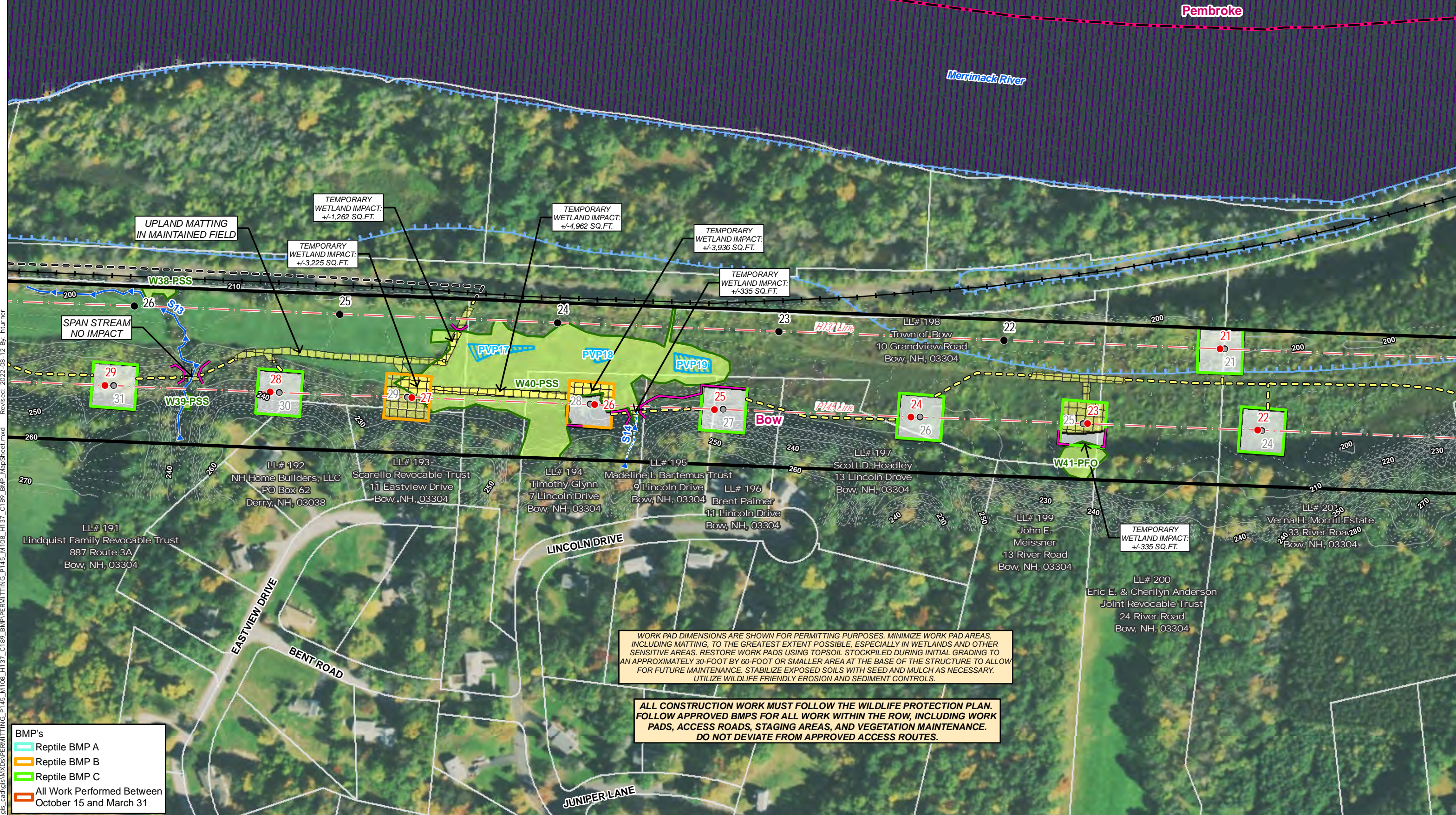
- Rare Species
- ▭ Kame Blue Butterfly Habitat

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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Bow, NH		MAP SHEET	
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Merrimack River

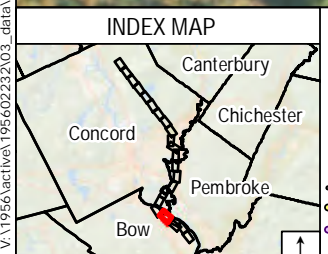


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- BMP's**
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 - Reptile BMP C
 - All Work Performed Between October 15 and March 31



Legend

<ul style="list-style-type: none"> ● Proposed Structure ● Existing Structure ● Existing Structure to be Removed — Overhead Eversource Line — Overhead Distribution Line — Underground Distribution Line — Existing Right-of-Way (ROW) — Existing Access — Proposed Access — Off-ROW Access Pending Rights 	<ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours 	<ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water 	<ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad Approximate Gas Line Fence Stone Wall Berm Gate Culvert 	<ul style="list-style-type: none"> Rare Species Kamer Blue Butterfly Habitat
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1 inch = 200 feet
0 50 100 200 Feet

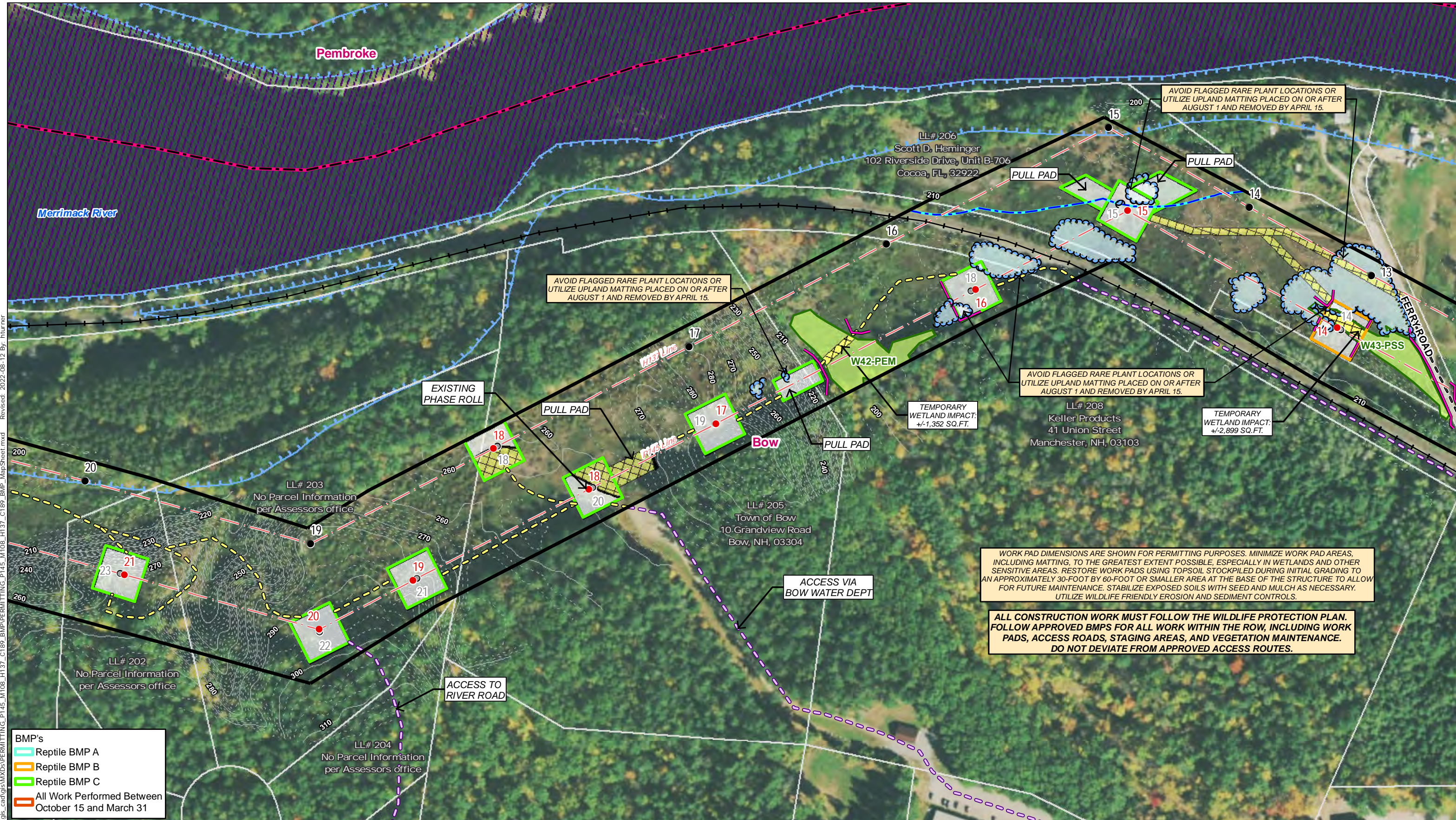
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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Bow, NH		MAP SHEET	
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 Revised: 2022-08-12 By: hturner



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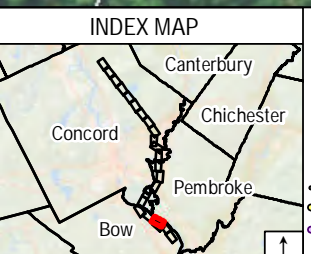
TEMPORARY WETLAND IMPACT: +/-1,352 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,899 SQ.FT.

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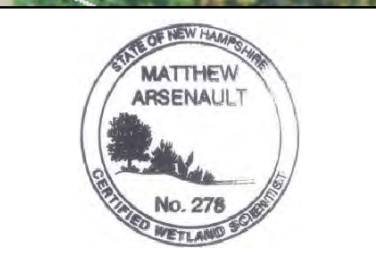
- BMP's**
- Reptile BMP A
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P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Bow, NH		MAP SHEET	
Date: August 12, 2022		20 of 23	



ACCESS TO
STRUCTURE 13

LL# 209
Keller Products
41 Union Street
Manchester, NH, 03103

LL# 208
Keller Products
41 Union Street
Manchester, NH, 03103

LL# 205
Town of Bow
10 Grandview Road
Bow, NH, 03304

Bow
BOW WATER
DEPARTMENT FACILITY

RIVER ROAD

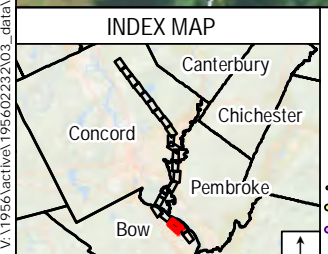
VAUGHN ROAD

Bow Bog Brook

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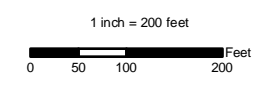
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- Kamer Blue Butterfly Habitat

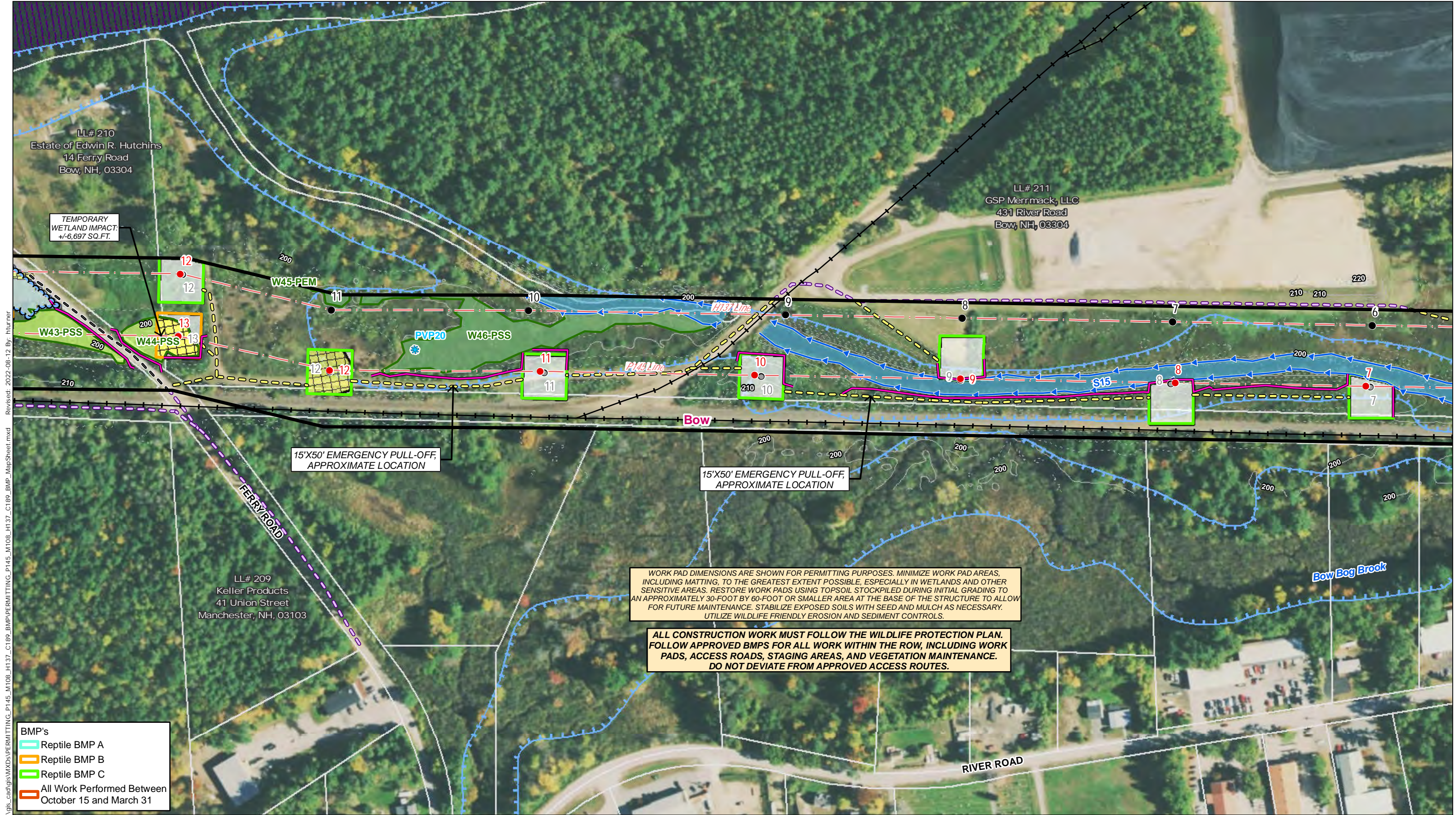


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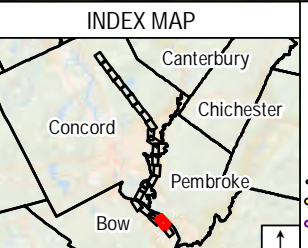
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set	
Bow, NH	MAP SHEET
Date: August 12, 2022	21 of 23

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- Municipal Boundary
- Sediment Control Barrier
- 2' Contours
- 10' Contours

- * Potential Vernal Pool
- Potential Vernal Pool Extent
- 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
- Gate
- Culvert

- * Rare Species
- Kame Blue Butterfly Habitat
- Dry Land Sedge

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.

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



EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Permit Map Set			
Bow, NH		MAP SHEET	
Date: August 12, 2022		22 of 23	



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 Revised: 2022-08-12 By: hturner

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-551 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,578 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,672 SQ.FT.

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

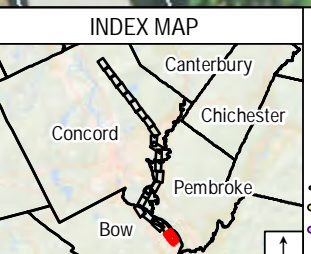
TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

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

- 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"> Proposed Structure Existing Structure Existing Structure to be Removed Overhead Eversource Line Overhead Distribution Line Underground Distribution Line Existing Right-of-Way (ROW) Existing Access Proposed Access Off-ROW Access Pending Rights | <ul style="list-style-type: none"> Temporary Construction Matting Stone Work Pad Existing Gravel Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary Sediment Control Barrier 2' Contours 10' Contours | <ul style="list-style-type: none"> Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Field Delineated Wetland Boundary Outline Field Delineated Wetland Priority Resource Area Open Water | <ul style="list-style-type: none"> FEMA 100-Year Flood Zone FEMA Floodway NHDES Protected Shoreland Railroad - GAS Approximate Gas Line Fence Stone Wall Berm Gate Culvert | <ul style="list-style-type: none"> Rare Species Kamer Blue Butterfly Habitat |
|--|--|--|---|--|



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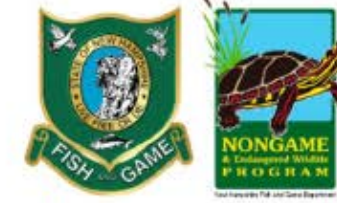
This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

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



Northern Black Racer

(New Hampshire state threatened species)



- Solid black with a white throat and chin
- Slender with glossy scales, 3-6 ft. long
- Hatchlings are very small and patterned



Immediately report sightings to NH Fish and Game

Melissa Doperalski (603-479-1129) or

Brendan Clifford (603-944-0885)

Please report promptly, noting specific location and date

Photographs strongly encouraged



P145 Transmission Line
Rebuild Project
Permitting Map Set
Concord, Pembroke, Bow, New
Hampshire
Wildlife Notes
Page 4 of 6

EVERSOURCE
ENERGY

 **Stantec**

August 12, 2022



REPORT OBSERVATIONS Smooth Green Snake (Species of Special Concern)

Report sightings to NHFG Wildlife Division at 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.