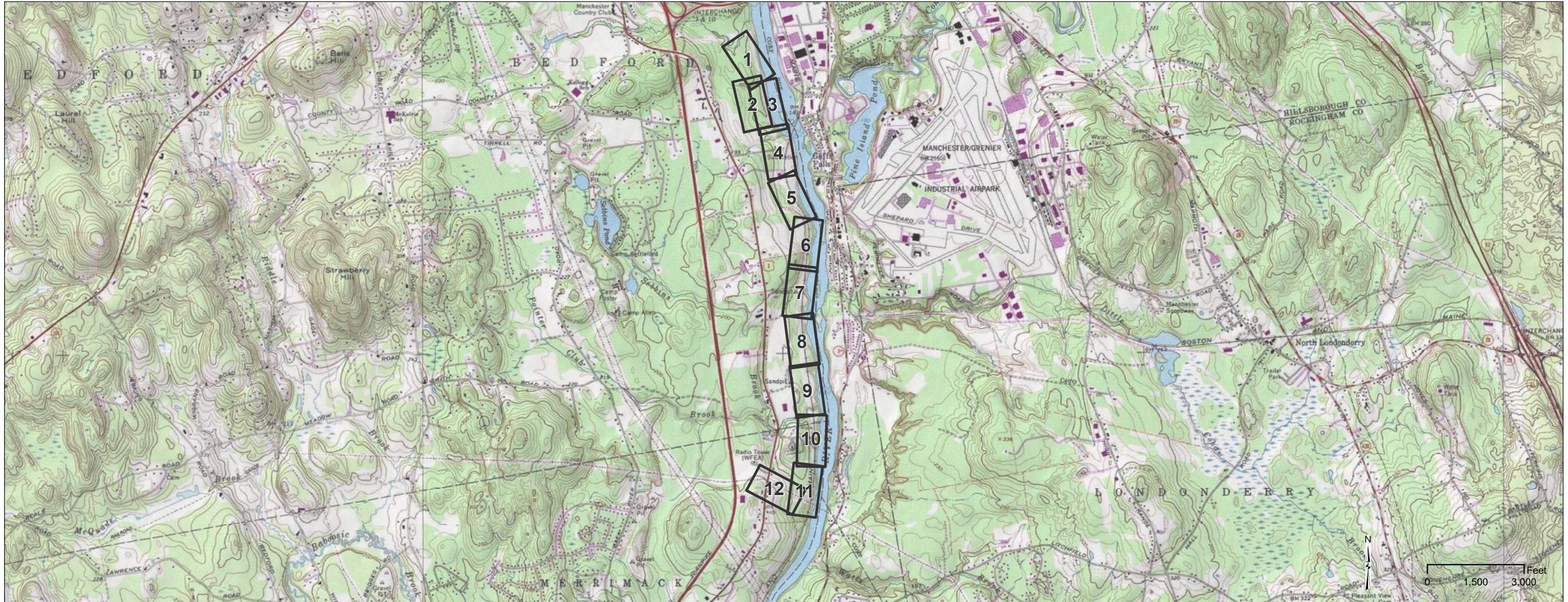


Line V191 Structure Replacement Project

BEDFORD AND MERRIMACK, NEW HAMPSHIRE Environmental Resources Map

Date: June 21, 2022



PREPARED FOR:



13 Legends Drive
Hooksett, NH 03106

Legend

- Map Index
- Municipal Boundary

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-12

NO.	DATE	REVISIONS

PREPARED BY:



53 Southampton Road
Westfield, MA 01085

DETAIL SHEET

Line V191 Structure Replacement Project
June 21, 2022

New Hampshire Fish and Game AoT Permit Conditions in accordance with Env-Wq 1503.33 – Wildlife Protection Notes:

- Northern black racer (state threatened), Eastern hognose snake (state endangered), spotted turtle (state threatened), and Blanding’s Turtle (state endangered) occur within the vicinity of the project area. Site operators shall be informed of the potential presence of these species and shall be provided flyers that help to identify these species along with NHFG contact information. See Details Sheet.
- Vernal pools and potential vernal pools shall be flagged prior to work and all impacts to vernal pools and potential vernal pools shall be avoided.
- If spotted or Blanding’s turtles are found laying eggs in a work area, Melissa Winters (603-479-1129 cell) or Josh Megyesy (978-578-0802 cell) shall be contacted for further instructions.
- 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 Josh Megyesy (978-578-0802 cell)) for further instructions. Please attempt to photograph this species to send to us for verification.
- 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. Observations of this species during this timeframe shall be reported immediately to the New Hampshire Fish and Game Department Nongame and Endangered Wildlife Environmental Review Program. Please contact Melissa Doperalski (603-479-1129) or Brendan Clifford (603-944-0885). Observations of this species outside of this timeframe can follow general reporting guidance. Please include photograph with text if feasible.
- Prior to daily construction activities, timber matting shall be reviewed for snakes and turtles. GZA shall provide an environmental addendum to the daily tailboards by the contractors to include guidance on protocols for snakes and provide identification for spotted turtle, Blanding’s turtle and northern black racer snake.
- Any rare species that are observed in work areas and are in immediate danger shall be moved away from impact area in the direction the animal was moving. Any handling of rare species shall be reported to NHFG immediately.
- Erosion control matting, if utilized, shall consist of jute matting. Matting with plastic mesh shall be avoided to limit unintentional mortality to snakes.
- At the conclusion of the project, a summary report of any rare species observations shall be provided to the NHFG Nongame Program.
- 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;
- 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, with the email subject line containing the NHB DataCheck tool results letter assigned number, the project name, and the term Wildlife Species Observation;
- 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;
- 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, if any, to assure the project does not appreciably jeopardize the continued existence of threatened and endangered species as defined in Fis 1002.04; and
- The NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit.

Additional Wildlife Protection Recommendations:

- Wood turtles (state species of special concern) occur within the vicinity of the project area. Site operators should be informed of the potential presence of these species and should be provided flyers that help to identify these species along with NHFG contact information should they be encountered during project activities. See Details Sheet.
- If wood turtles (state species of special concern) are found laying eggs in a work area, Melissa Winters (603-479-1129 cell) or Josh Megyesy (978-578-0802 cell) shall be contacted for further instructions. All turtle nests are protected by NH laws.
- Tighe & Bond shall provide an environmental addendum to the daily tailboards by the contractors to include guidance on protocols and provide identification for wood turtles.



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 Winters 603-479-1129 (call or text) anytime.
Please report promptly, noting specific location and date – Photographs strongly encouraged

- Black, gray or patterned appearance
- upturned 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






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 Winters 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)

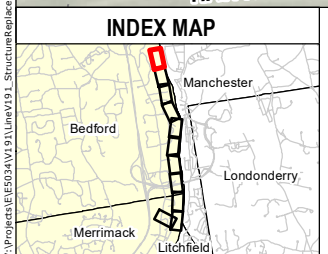
- Sculpted, pyramidal brownish shell
- Orange around neck and limbs
- River/stream turtle spending many months on land

Spotted turtle (state threatened)

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

TOTAL AOT IMPACTS:
560,498 SQ. FT.



Legend	
● Proposed Structure	○ Proposed Access
● Existing Structure	○ Off-ROW Access Pending Rights
— Overhead Eversource Line	— Ordinary High Water Mark (not delineated)
— Railroad	— Watercourse (not delineated)
— Contour Line (2 Ft.)	— Field Delineated Wetland*
× Fence	— Parcel Boundary
— Sediment Control Barrier	— Existing Access
— Existing Access	— Existing Right-of-Way
■ Rare Animal Species	■ Work Pad
■ Rare Plant Species	■ Temporary Construction Matting
— Municipal Boundary	■ Temporary Upland Matting
— 150' Natural Woodland Buffer	○ Stonewall
— 250' Protected Shoreland Zone	— 50' Waterfront Buffer
— AOT Impact	
— FEMA 100-Year Flood Zone	
— Wellhead Protection Areas	

Map Notes:
Data valid as of June 2022.
Data source: New Hampshire Geographically Referenced Analysis and Information Transfer System (GRANIT) and USFWS. Orthophotography courtesy of ESRI.
Contours downloaded from New Hampshire GRANIT
Parcels provided by New Hampshire GRANIT
Figure intended to be printed on 11x17
*Indicates datasets with a transparency setting of 30-70%
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.

1 inch = 100 feet

NO.	DATE	REVISIONS

EVERSOURCE

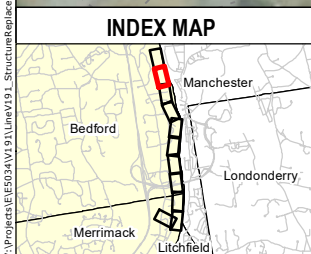
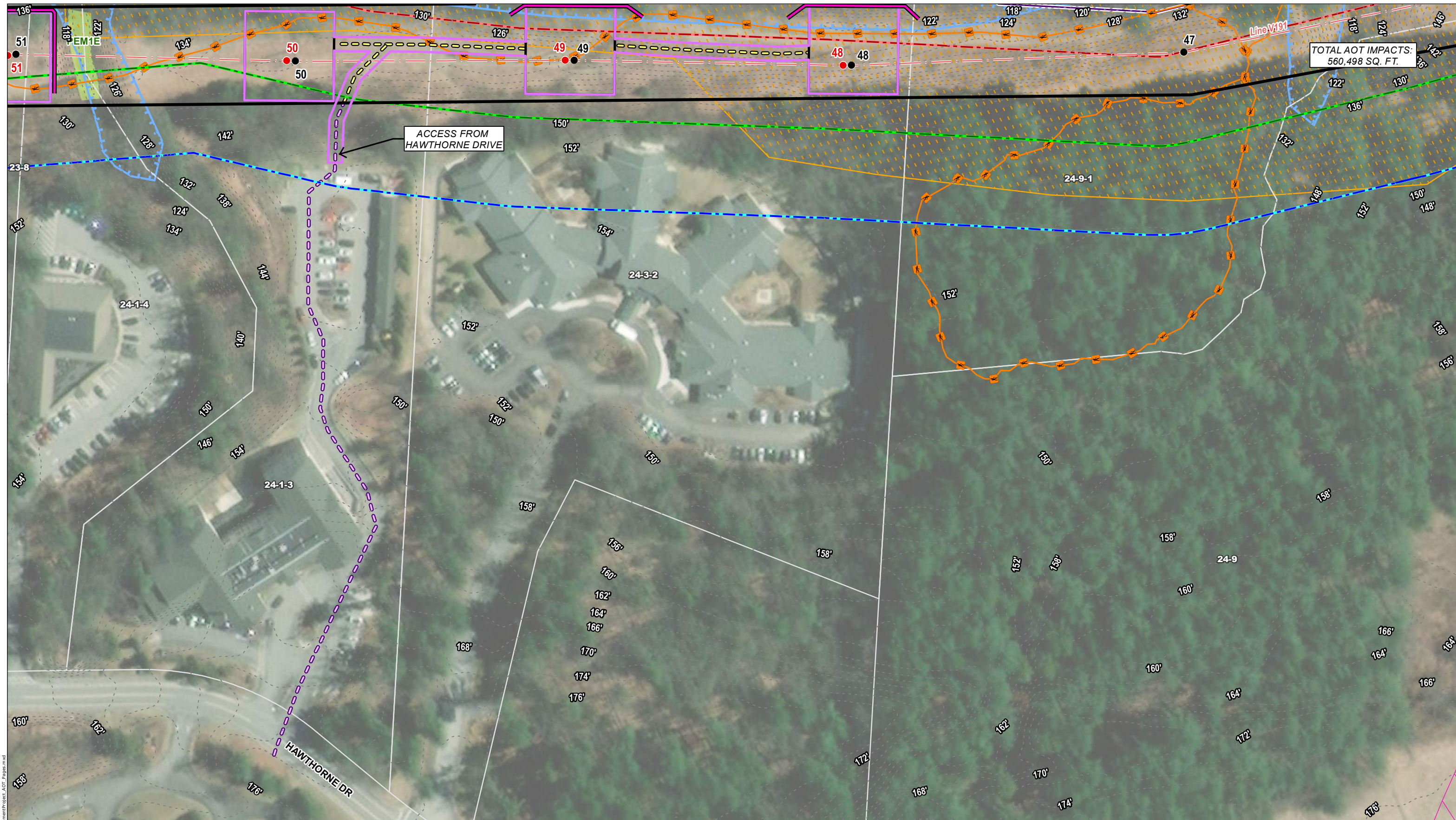
**Line V191
Structure Replacement Project**

Bedford, New Hampshire

Date: June 21, 2022

Map Sheet 1 of 12

Tighe & Bond



Legend	
● Proposed Structure	— Proposed Access
● Existing Structure	— Off-ROW Access Pending Rights
— Overhead Eversource Line	— Trail
— Railroad	— Ordinary High Water Mark (not delineated)
— Contour Line (2 Ft.)	— Watercourse (not delineated)
×—× Fence	— Field Delineated Wetland*
— Sediment Control Barrier	— Parcel Boundary
— Existing Access	— Existing Right-of-Way
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0 50 100 Feet

NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

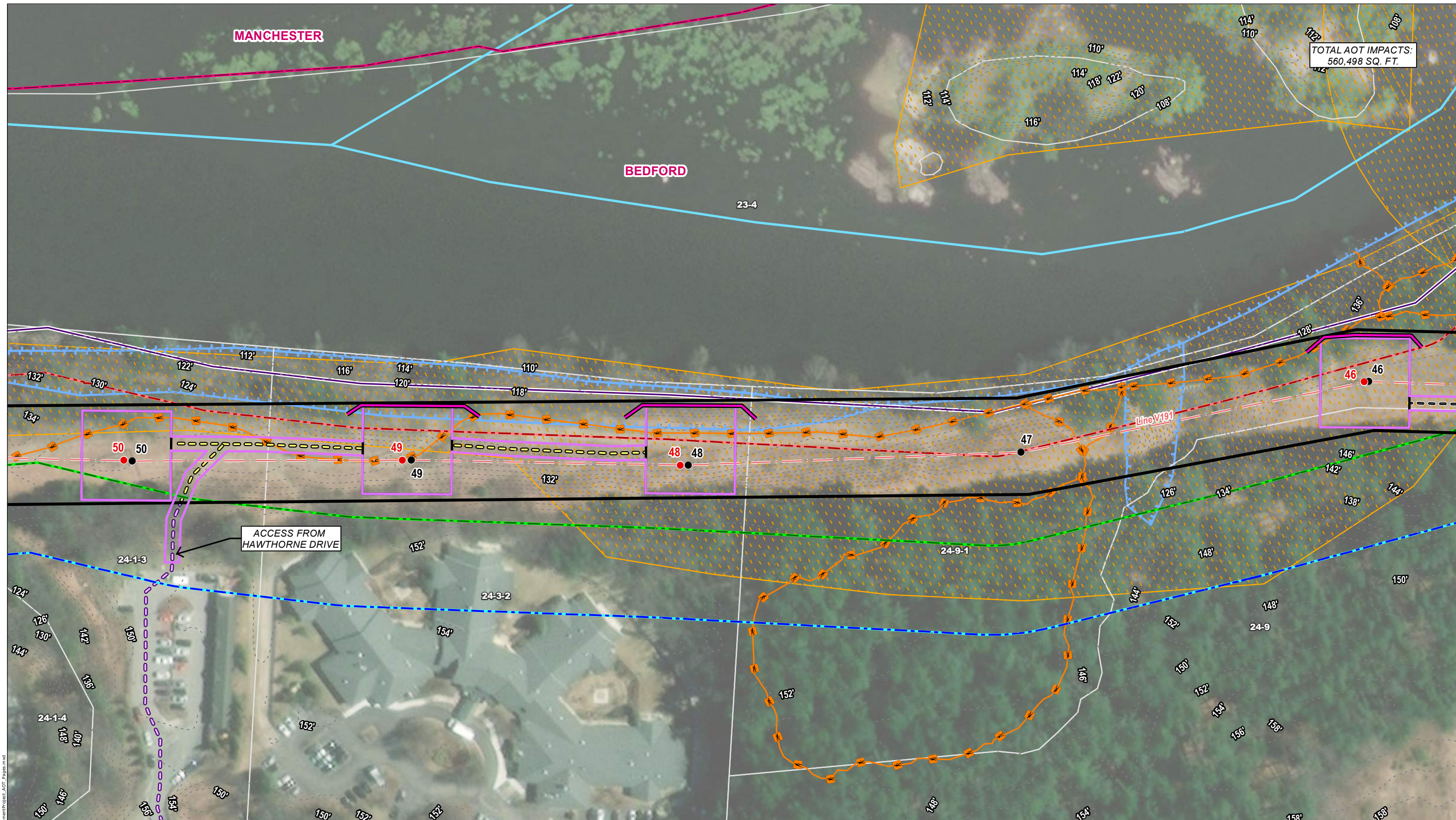
Bedford, New Hampshire

Date: June 21, 2022

Map Sheet 2 of 12

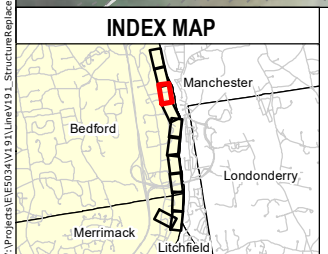
Tighe & Bond

V:\projects\150341\191\LineV191_StructureReplacementProject_AOT_Pages.mxd



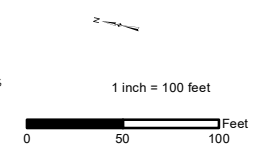
TOTAL AOT IMPACTS:
560,498 SQ. FT.

ACCESS FROM
HAWTHORNE DRIVE



- Legend**
- Proposed Structure
 - Existing Structure
 - Overhead Eversource Line
 - ⊕ Railroad
 - - Contour Line (2 Ft.)
 - ✕ Fence
 - ▬ Sediment Control Barrier
 - ▬ Existing Access
 - ▬ Proposed Access
 - ▬ Off-ROW Access Pending Rights
 - ▬ Ordinary High Water Mark (not delineated)
 - ▬ Watercourse (not delineated)
 - ▬ Field Delineated Wetland*
 - ▬ Parcel Boundary
 - ▬ Existing Right-of-Way
 - ▬ Rare Animal Species
 - ▬ Rare Plant Species
 - ▬ Trail
 - ▬ Municipal Boundary
 - ▬ Work Pad
 - ▬ Temporary Construction Matting
 - ▬ Temporary Upland Matting
 - Stonewall
 - ▬ 50' Waterfront Buffer
 - ▬ 150' Natural Woodland Buffer
 - ▬ 250' Protected Shoreland Zone
 - ▬ AOT Impact
 - ▬ FEMA 100-Year Flood Zone
 - ▬ Wellhead Protection Areas

Map Notes:
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NO.	DATE	REVISIONS

EVERSOURCE

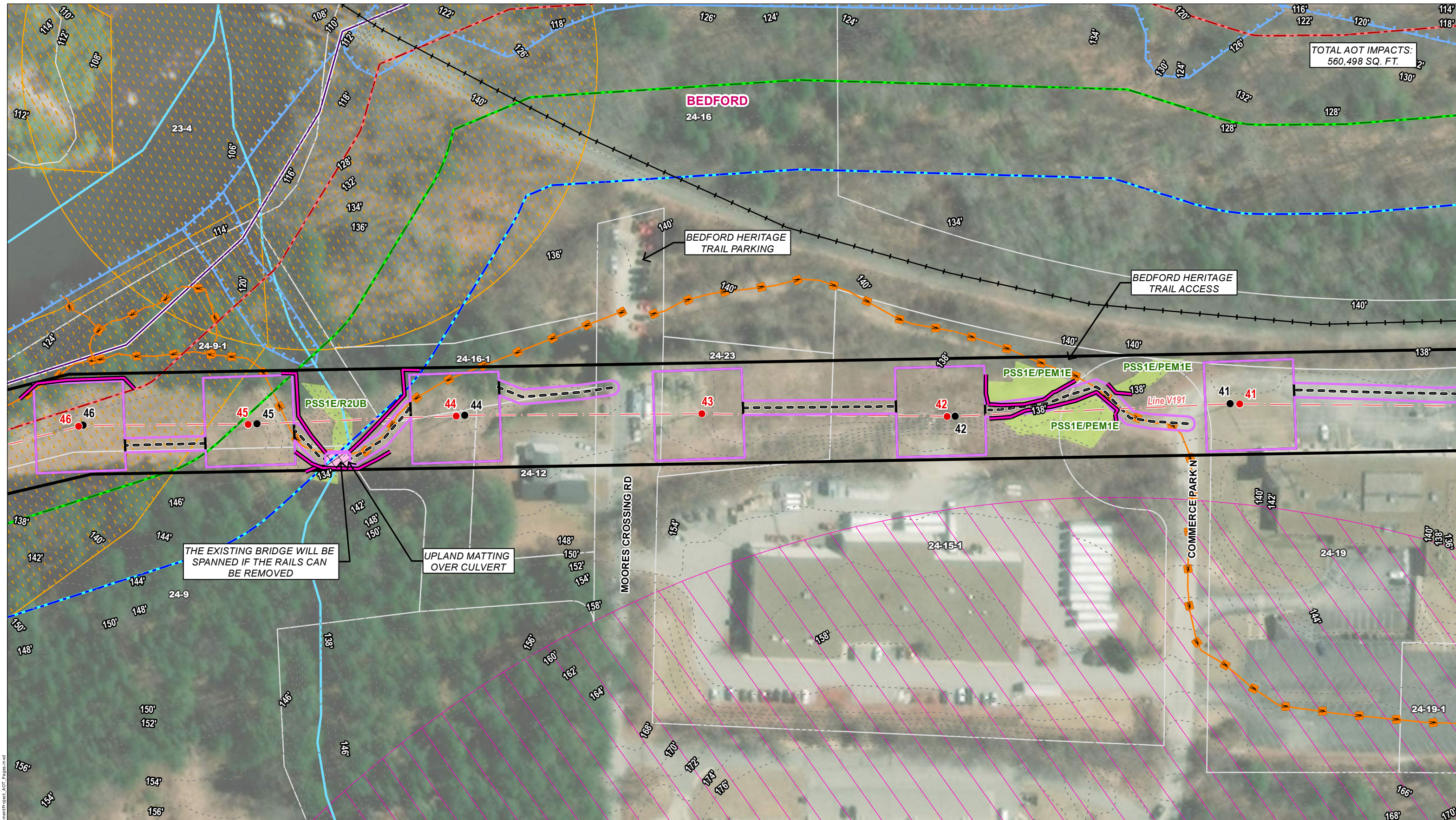
**Line V191
Structure Replacement Project**

Bedford, New Hampshire

Date: June 21, 2022

Map Sheet 3 of 12

Tighe & Bond



TOTAL AOT IMPACTS:
560,498 SQ. FT.

BEDFORD
24-16

BEDFORD HERITAGE
TRAIL PARKING

BEDFORD HERITAGE
TRAIL ACCESS

PSS1E/R2UB

PSS1E/PEM1E

PSS1E/PEM1E

Line V191

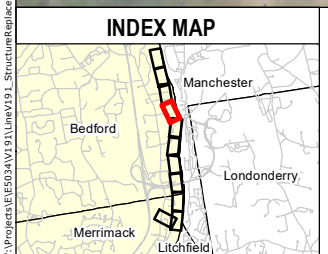
PSS1E/PEM1E

THE EXISTING BRIDGE WILL BE
SPANNED IF THE RAILS CAN
BE REMOVED

UPLAND MATTING
OVER CULVERT

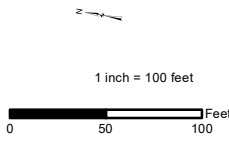
MOORES CROSSING RD

COMMERCER PARK N



- Legend**
- Proposed Structure
 - Existing Structure
 - Overhead Eversource Line
 - Railroad
 - Contour Line (2 Ft.)
 - ✕ Fence
 - Sediment Control Barrier
 - Existing Access
 - Proposed Access
 - Off-ROW Access Pending Rights
 - Trail
 - Ordinary High Water Mark (not delineated)
 - Watercourse (not delineated)
 - Field Delineated Wetland*
 - Parcel Boundary
 - Existing Right-of-Way
 - Rare Animal Species
 - Rare Plant Species
 - Municipal Boundary
 - Work Pad
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 - FEMA 100-Year Flood Zone
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 - Wellhead Protection Areas

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NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

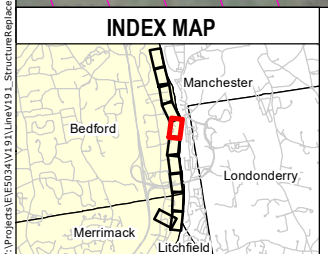
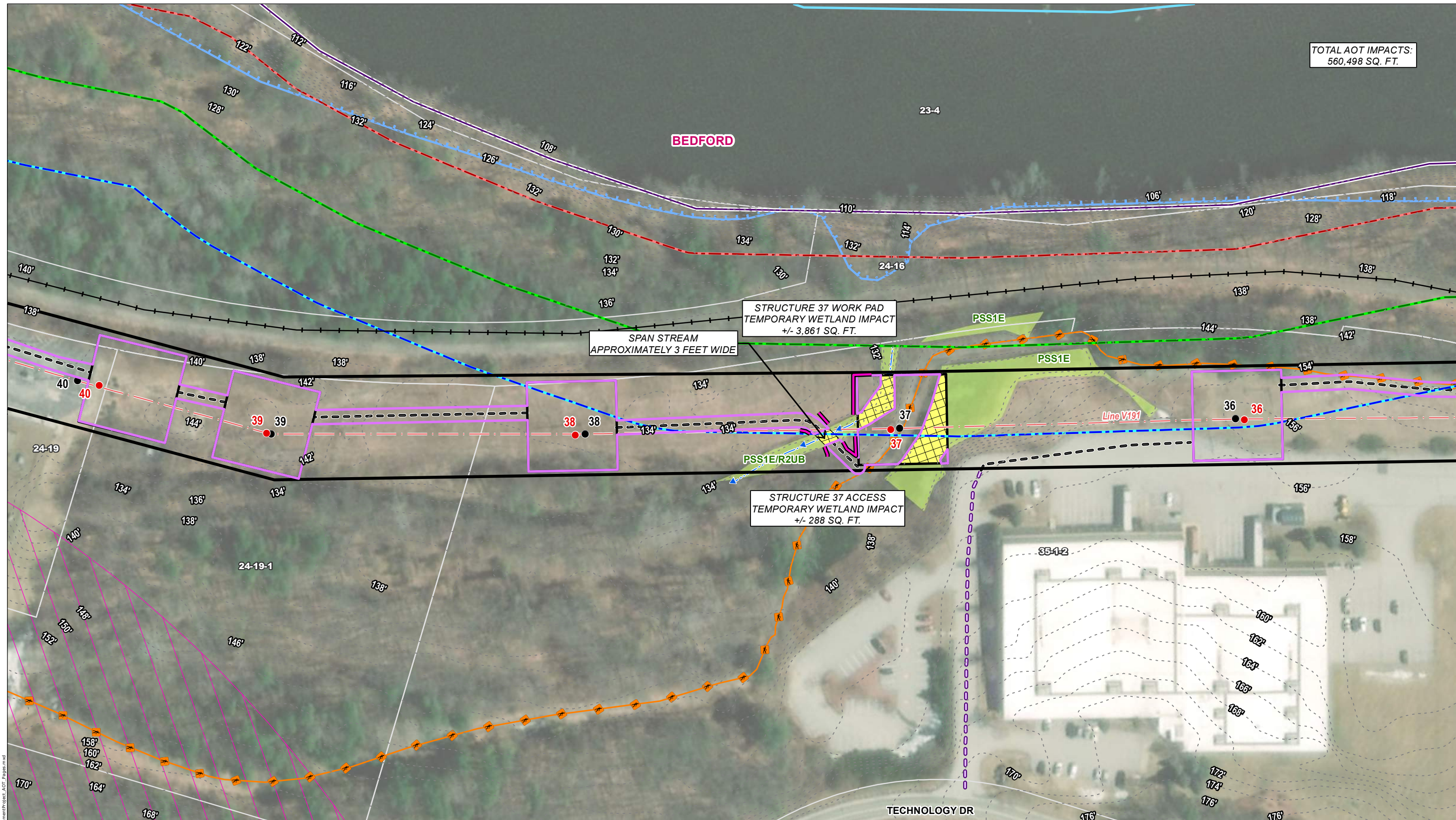
Bedford, New Hampshire

Date: June 21, 2022

Map Sheet 4 of 12

Tighe & Bond

TOTAL AOT IMPACTS:
560,498 SQ. FT.



Legend

● Proposed Structure	— Proposed Access	■ Rare Animal Species	— 150' Natural Woodland Buffer
● Existing Structure	— Off-ROW Access Pending Rights	■ Rare Plant Species	— 250' Protected Shoreland Zone
— Overhead Eversource Line	— Trail	— Municipal Boundary	— AOT Impact
— Railroad	— Ordinary High Water Mark (not delineated)	— Work Pad	— FEMA 100-Year Flood Zone
— Contour Line (2 Ft.)	— Watercourse (not delineated)	— Temporary Construction Matting	— Wellhead Protection Areas
— Fence	— Field Delineated Wetland*	— Temporary Upland Matting	
— Sediment Control Barrier	— Parcel Boundary	— Stonewall	
— Existing Access	— Existing Right-of-Way	— 50' Waterfront Buffer	

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1 inch = 100 feet

NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

Bedford, New Hampshire

Date: June 21, 2022

Map Sheet 5 of 12

Tighe & Bond

MANCHESTER

BEDFORD

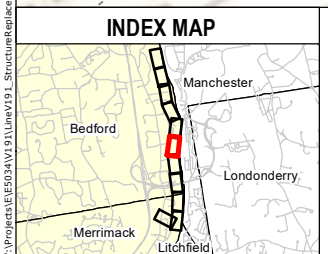
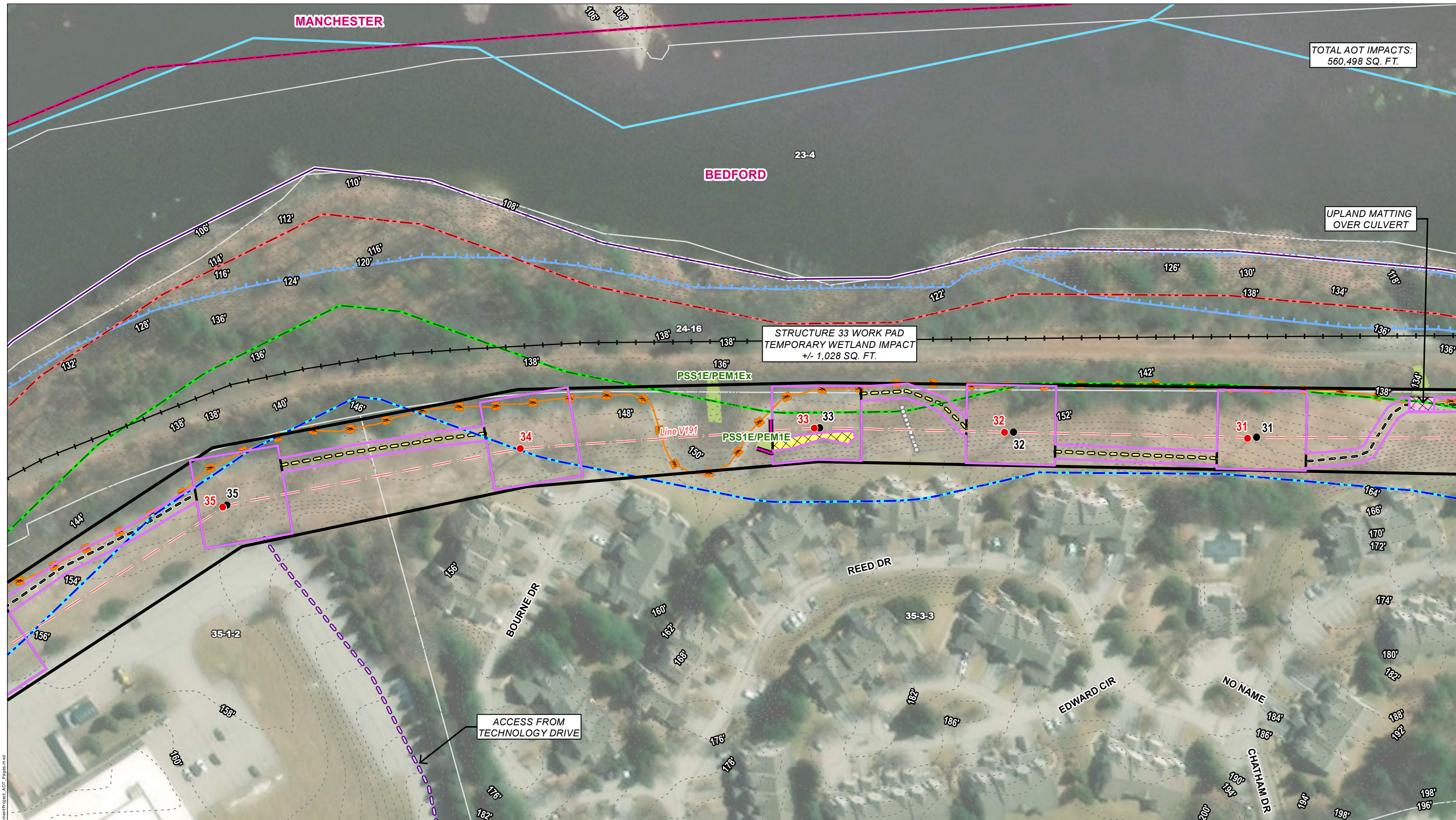
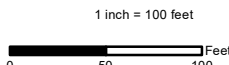
TOTAL AOT IMPACTS:
560,498 SQ. FT.

UPLAND MATTING
OVER CULVERT

STRUCTURE 33 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 1,028 SQ. FT.

ACCESS FROM
TECHNOLOGY DRIVE

Map Notes:
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Legend	
● Proposed Structure	— Proposed Access
● Existing Structure	— Off-ROW Access Pending Rights
— Overhead Eversource Line	— Trail
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— AOT Impact	
— FEMA 100-Year Flood Zone	
— Wellhead Protection Areas	

EVERSOURCE

Line V191
Structure Replacement Project

Bedford, New Hampshire

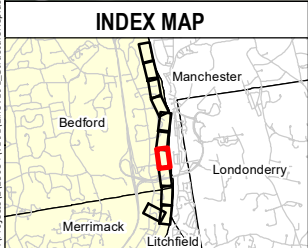
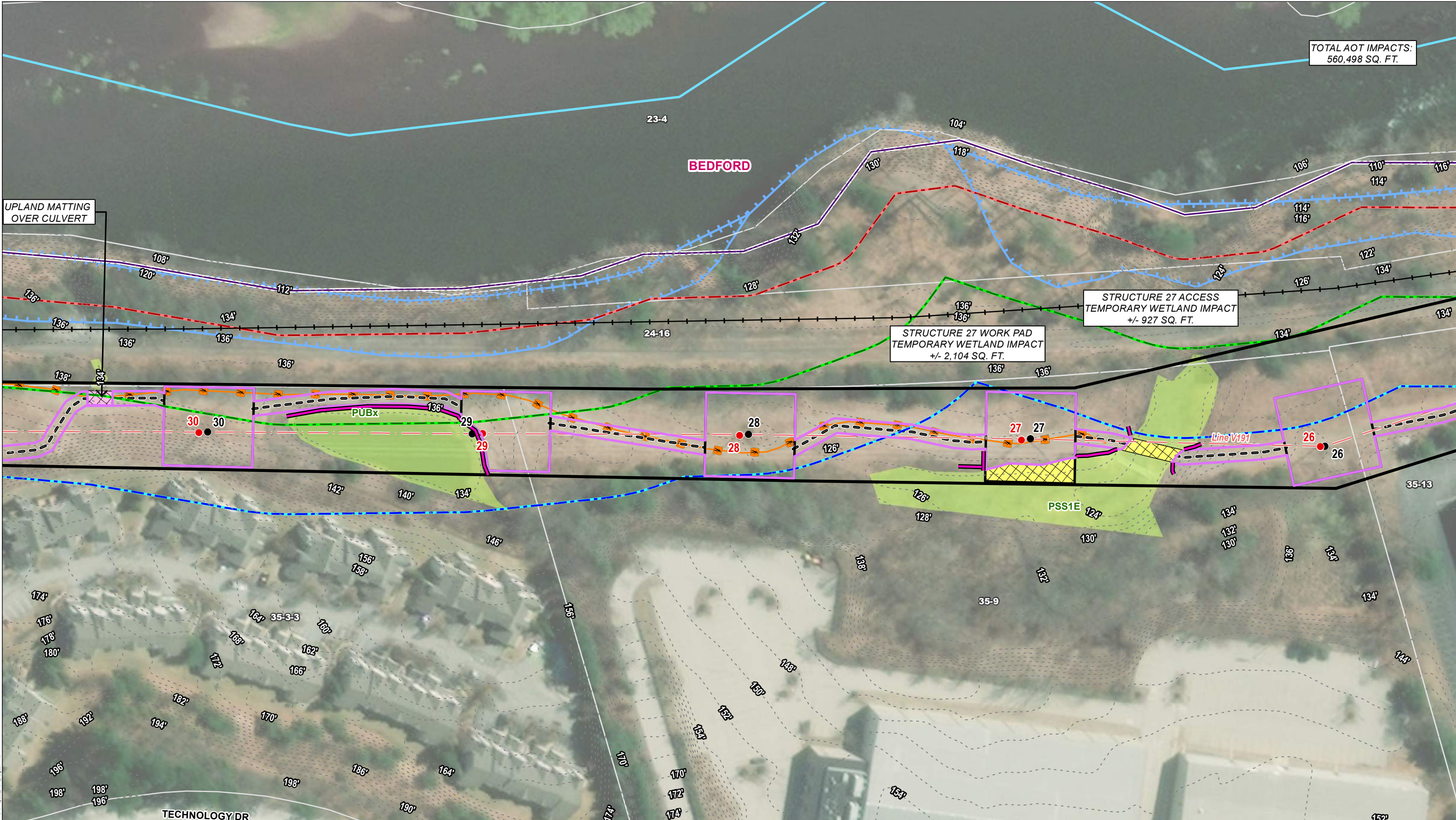
Date: June 21, 2022

Map Sheet 6 of 12

Tighe & Bond

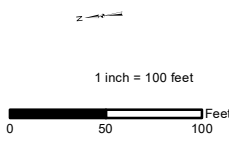
NO.	DATE	REVISIONS

TOTAL AOT IMPACTS:
560,498 SQ. FT.



- Legend**
- Proposed Structure
 - Existing Structure
 - - - Overhead Eversource Line
 - Railroad
 - - - Contour Line (2 Ft.)
 - ✕✕ Fence
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NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

Bedford, New Hampshire

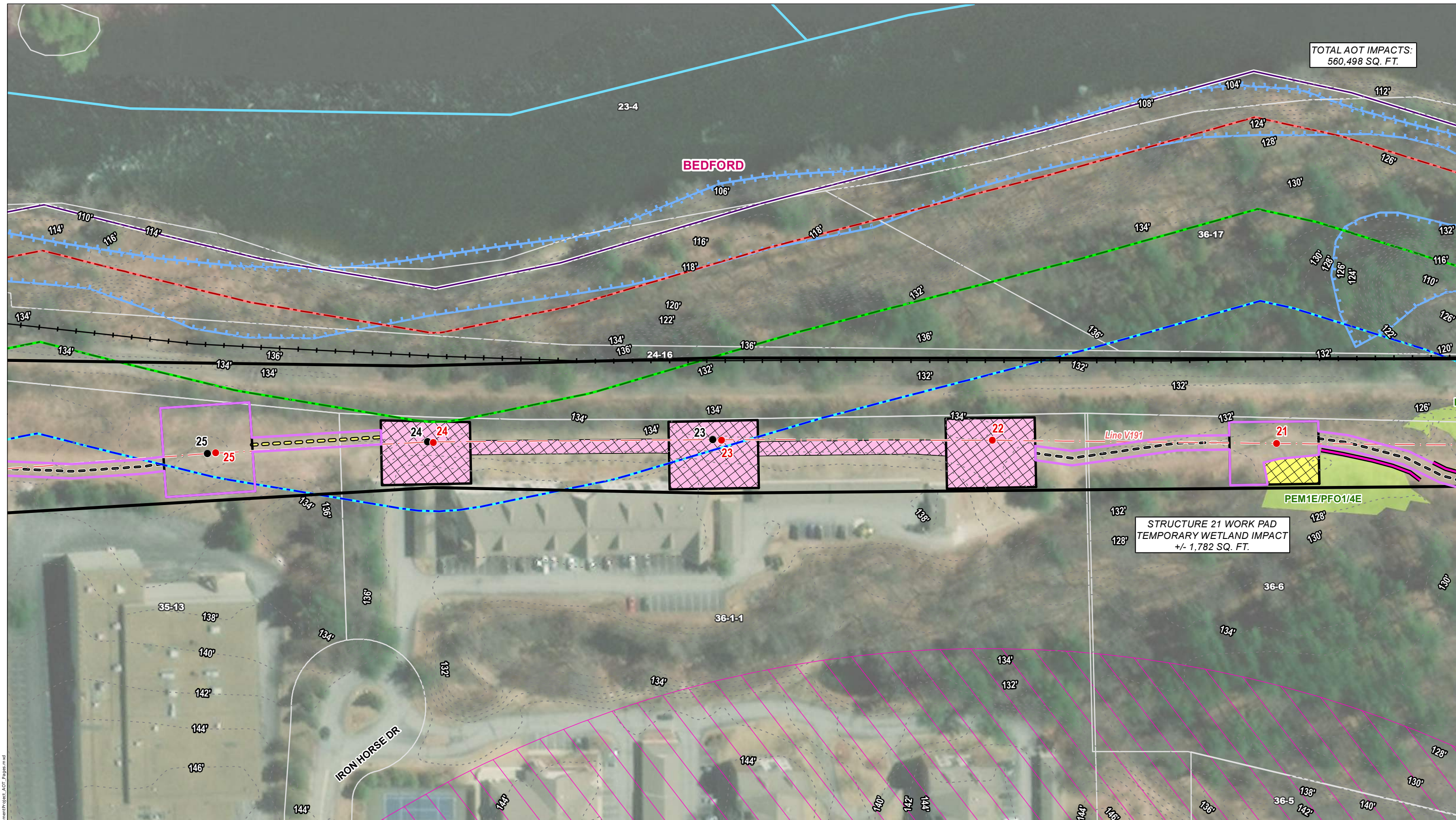
Date: June 21, 2022

Map Sheet 7 of 12

Tighe & Bond

V:\projects\150341\150341_V191_StructureReplacement\Project_AOT_Page.mxd

TOTAL AOT IMPACTS:
560,498 SQ. FT.



STRUCTURE 21 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 1,782 SQ. FT.

PEM1E/PFO1/4E

Line V191

BEDFORD

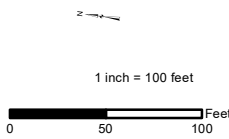
INDEX MAP



Legend

- Proposed Structure
- Existing Structure
- - - Overhead Eversource Line
- - - Railroad
- - - Contour Line (2 Ft.)
- ✕✕ Fence
- Sediment Control Barrier
- Existing Access
- Proposed Access
- Off-ROW Access Pending Rights
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- Field Delineated Wetland*
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EVERSOURCE

Line V191
Structure Replacement Project

Bedford, New Hampshire

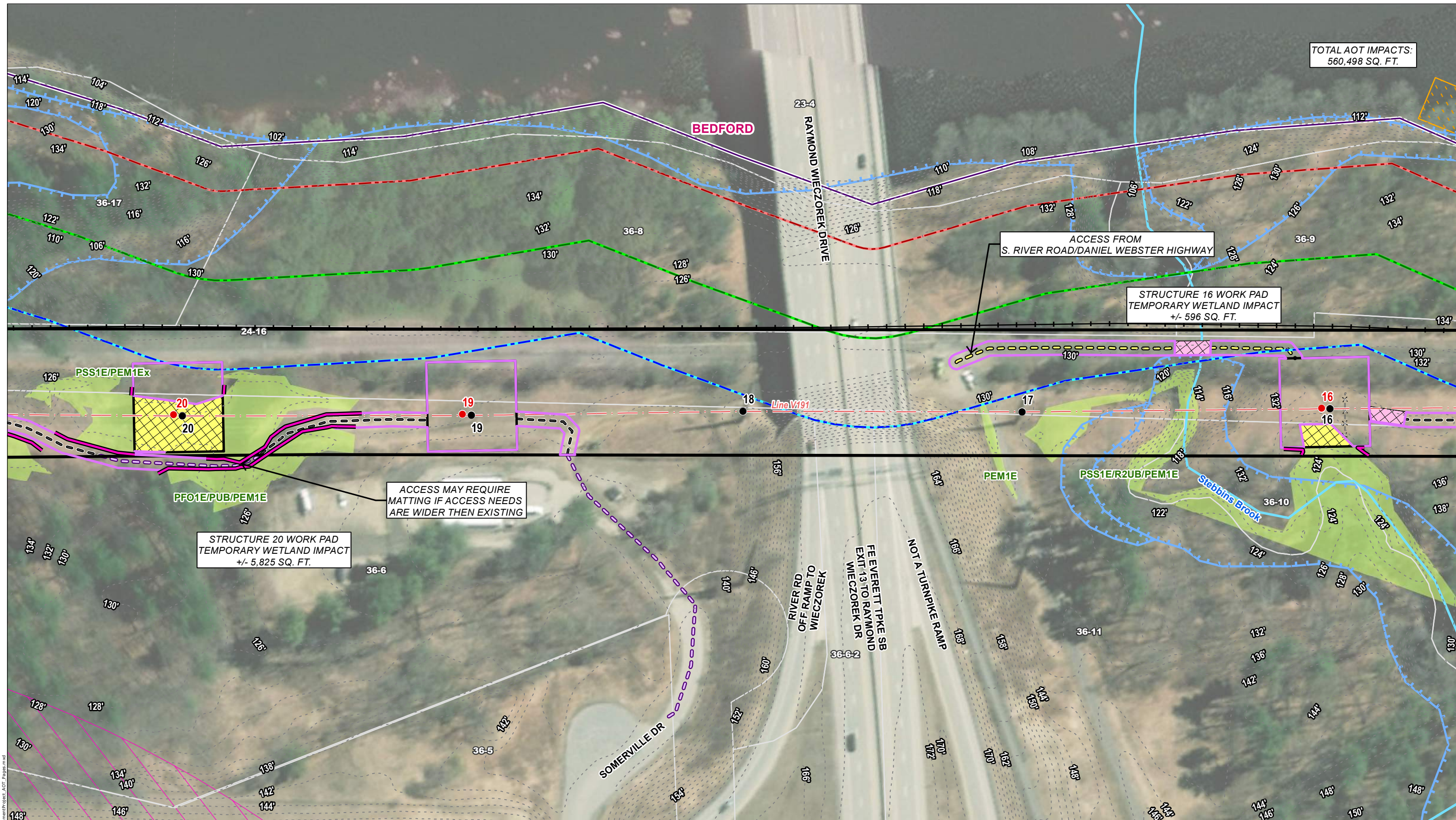
Date: June 21, 2022

Map Sheet 8 of 12

Tighe & Bond

NO.	DATE	REVISIONS

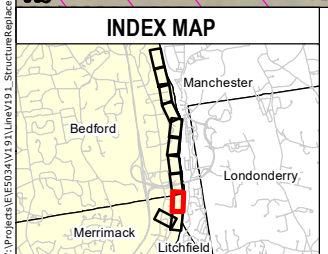
TOTAL AOT IMPACTS:
560,498 SQ. FT.



ACCESS MAY REQUIRE
MATTING IF ACCESS NEEDS
ARE WIDER THEN EXISTING

STRUCTURE 20 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 5,825 SQ. FT.

STRUCTURE 16 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 596 SQ. FT.



Legend	
● Proposed Structure	○ Proposed Access
● Existing Structure	○ Off-ROW Access Pending Rights
— Overhead Eversource Line	— Trail
— Railroad	— Ordinary High Water Mark (not delineated)
— Contour Line (2 Ft.)	— Watercourse (not delineated)
✕ Fence	— Field Delineated Wetland*
— Sediment Control Barrier	— Parcel Boundary
— Existing Access	— Existing Right-of-Way
■ Rare Animal Species	■ Work Pad
■ Rare Plant Species	■ Temporary Construction Matting
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EVERSOURCE

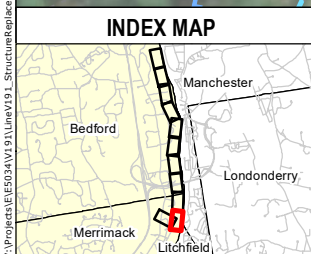
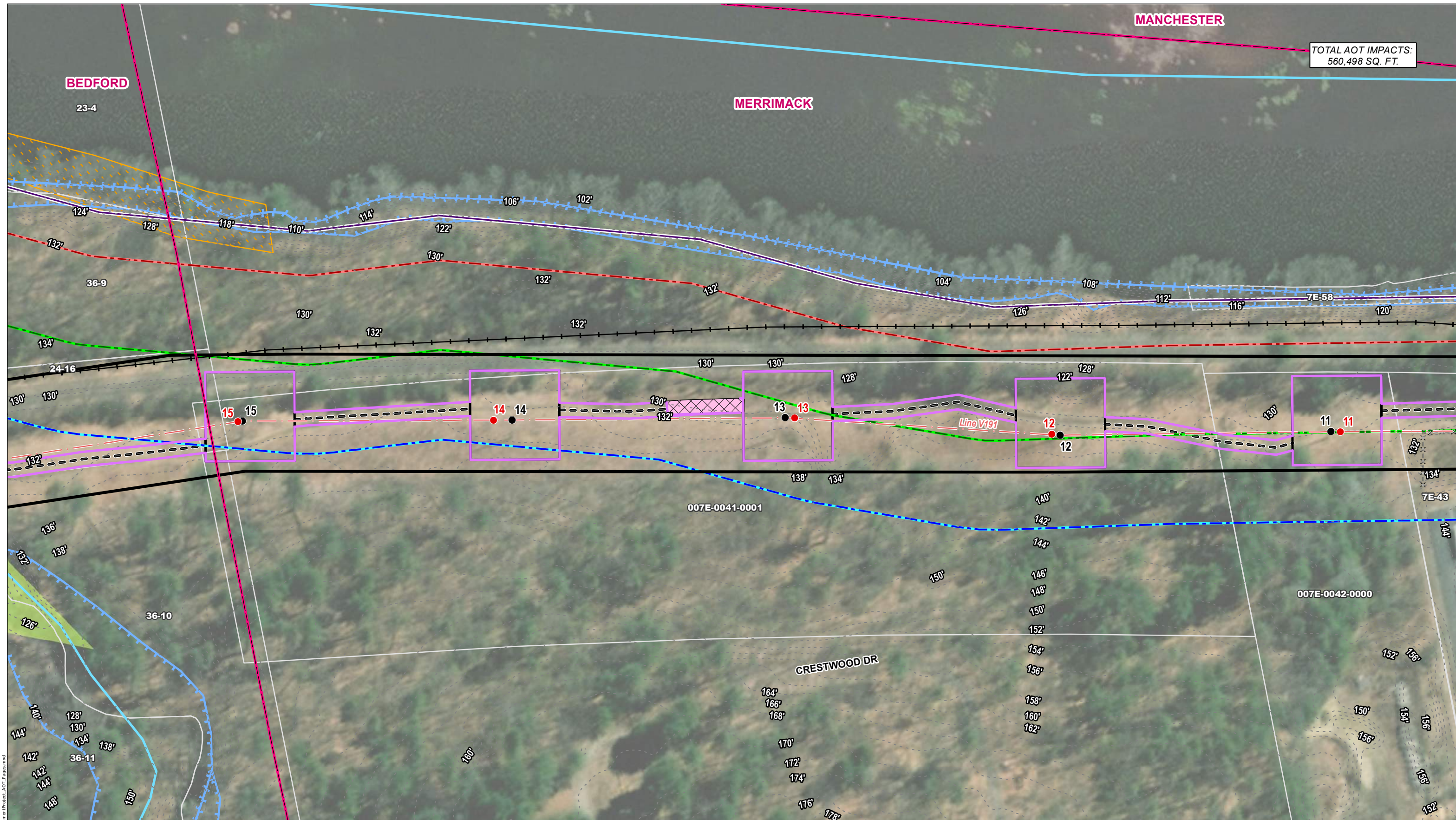
**Line V191
Structure Replacement Project**

Bedford, New Hampshire

Date: June 21, 2022

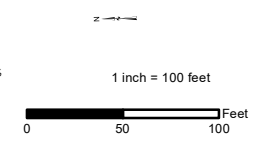
Map Sheet 9 of 12

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- Legend**
- Proposed Structure
 - Existing Structure
 - Overhead Eversource Line
 - Railroad
 - - - Contour Line (2 Ft.)
 - X-X Fence
 - Sediment Control Barrier
 - Existing Access
 - Proposed Access
 - Off-ROW Access Pending Rights
 - Trail
 - Ordinary High Water Mark (not delineated)
 - Watercourse (not delineated)
 - Field Delineated Wetland*
 - Parcel Boundary
 - Existing Right-of-Way
 - Rare Animal Species
 - Rare Plant Species
 - Municipal Boundary
 - Work Pad
 - Temporary Construction Matting
 - Temporary Upland Matting
 - Stonewall
 - 50' Waterfront Buffer
 - 150' Natural Woodland Buffer
 - 250' Protected Shoreland Zone
 - AOT Impact
 - FEMA 100-Year Flood Zone
 - Wellhead Protection Areas

Map Notes:
 Data valid as of June 2022.
 Data source: New Hampshire Geographically Referenced Analysis and Information Transfer System (GRANIT) and USFWS. Orthophotography courtesy of ESRI.
 Contours downloaded from New Hampshire GRANIT
 Parcels provided by New Hampshire GRANIT
 Figure intended to be printed on 11x17
 *Indicates datasets with a transparency setting of 30-70%
 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.



NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

Bedford/Merrimack, New Hampshire

Date: June 21, 2022

Map Sheet 10 of 12

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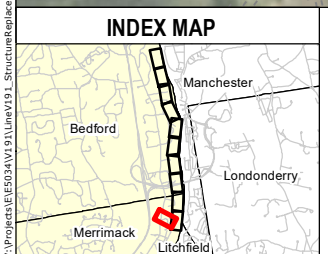
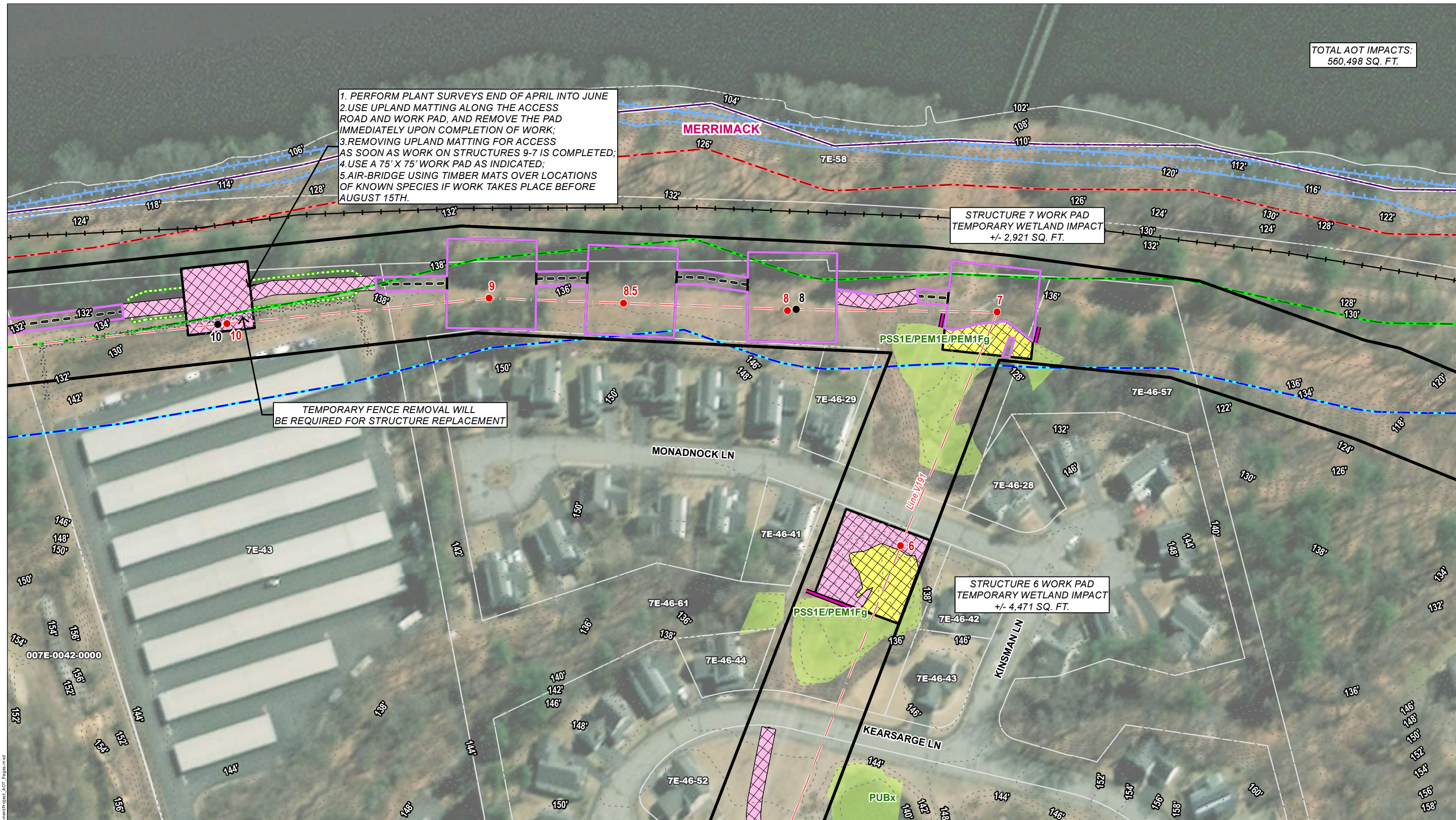
TOTAL AOT IMPACTS:
560,498 SQ. FT.

1. PERFORM PLANT SURVEYS END OF APRIL INTO JUNE
2. USE UPLAND MATTING ALONG THE ACCESS ROAD AND WORK PAD, AND REMOVE THE PAD IMMEDIATELY UPON COMPLETION OF WORK;
3. REMOVING UPLAND MATTING FOR ACCESS AS SOON AS WORK ON STRUCTURES 9-7 IS COMPLETED;
4. USE A 75' X 75' WORK PAD AS INDICATED;
5. AIR-BRIDGE USING TIMBER MATS OVER LOCATIONS OF KNOWN SPECIES IF WORK TAKES PLACE BEFORE AUGUST 15TH.

STRUCTURE 7 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 2,921 SQ. FT.

TEMPORARY FENCE REMOVAL WILL
BE REQUIRED FOR STRUCTURE REPLACEMENT

STRUCTURE 6 WORK PAD
TEMPORARY WETLAND IMPACT
+/- 4,471 SQ. FT.



Legend	
● Proposed Structure	○ Existing Structure
— Proposed Access	— Off-ROW Access Pending Rights
— Overhead Eversource Line	— Railroad
— Contour Line (2 Ft.)	— Fence
— Sediment Control Barrier	— Existing Access
— Existing Right-of-Way	— Rare Animal Species
— Rare Plant Species	— Municipal Boundary
— Work Pad	— Temporary Construction Matting
— Temporary Upland Matting	— Stonewall
— 50' Waterfront Buffer	— 150' Natural Woodland Buffer
— 250' Protected Shoreland Zone	— AOT Impact
— FEMA 100-Year Flood Zone	— Wellhead Protection Areas
— Field Delineated Wetland*	— Parcel Boundary
— Existing Right-of-Way	

Map Notes:
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1 inch = 100 feet
0 50 100 Feet

NO.	DATE	REVISIONS

EVERSOURCE

**Line V191
Structure Replacement Project**

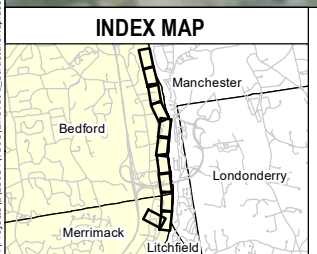
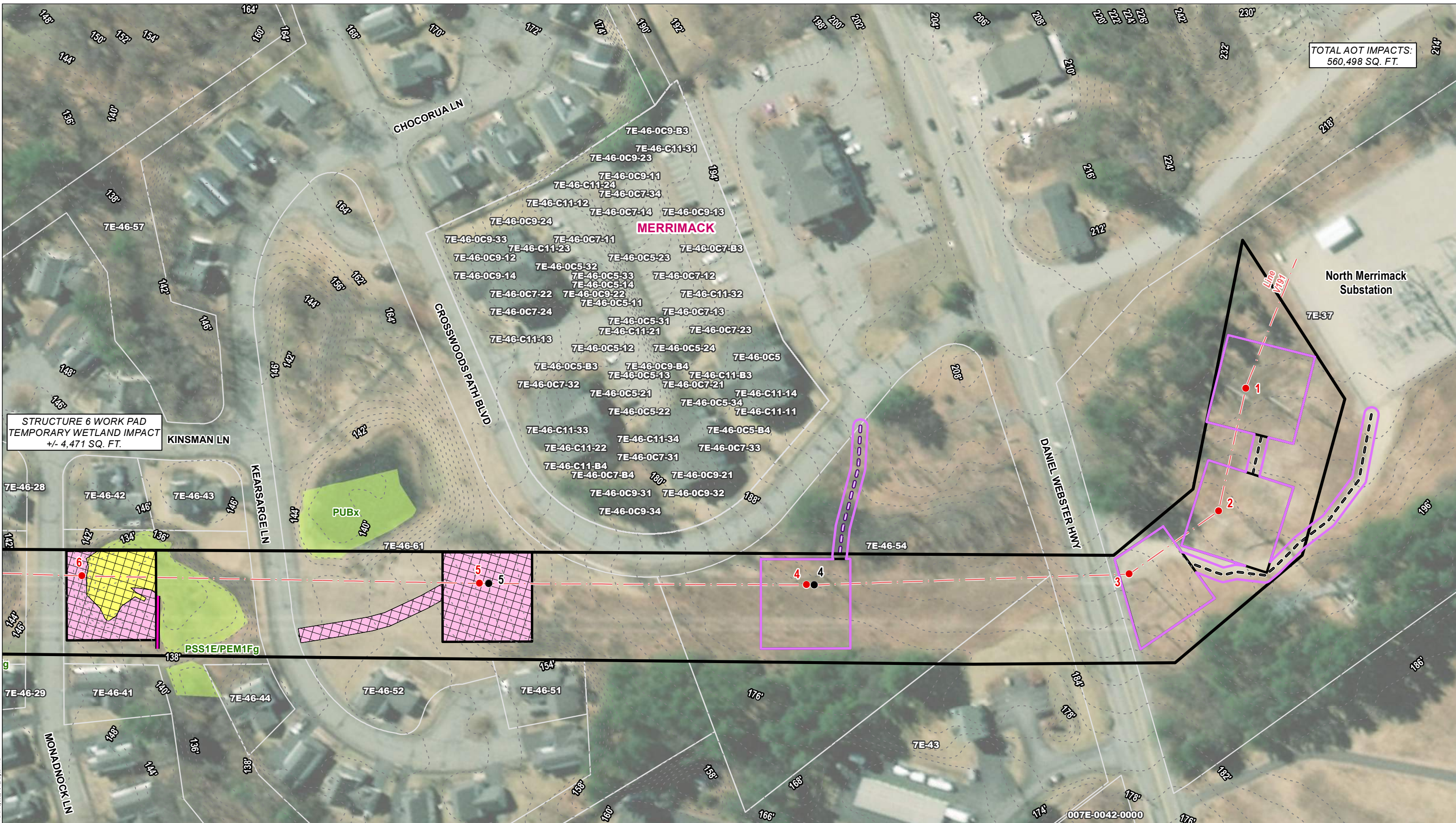
Merrimack, New Hampshire

Date: June 21, 2022

Map Sheet 11 of 12

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TOTAL AOT IMPACTS:
560,498 SQ. FT.



Legend

● Proposed Structure	○ Proposed Access	▨ Rare Animal Species	▨ 150' Natural Woodland Buffer
● Existing Structure	○ Off-ROW Access Pending Rights	▨ Rare Plant Species	▨ 250' Protected Shoreland Zone
— Overhead Eversource Line	— Trail	▨ Municipal Boundary	▨ AOT Impact
— Railroad	— Ordinary High Water Mark (not delineated)	▨ Work Pad	▨ FEMA 100-Year Flood Zone
— Contour Line (2 Ft.)	— Watercourse (not delineated)	▨ Temporary Construction Matting	▨ Wellhead Protection Areas
× Fence	▨ Field Delineated Wetland*	▨ Temporary Upland Matting	
▨ Sediment Control Barrier	▨ Parcel Boundary	○ Stonewall	
— Existing Access	▨ Existing Right-of-Way	— 50' Waterfront Buffer	

Map Notes:
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**Line V191
Structure Replacement Project**

Merrimack, New Hampshire

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Map Sheet 12 of 12

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