

A-17 Lincoln Co Hilt Lake Bridge Rehab

State of Wisconsin
 Department of Natural Resources
dnr.wi.gov

Motorized Recreation Grant Application

For: (choose all that apply) Form 8700-159 (R 02/2024) Page 1 of 5

- ATV/UTV Trail Aid
- Snowmobile Trail Aid

Due Date: April 15

Notice: Completion of this form is required under Wisconsin Statutes 23.09(26) and 23.33. Failure to complete this form will result in denial of financial assistance. Personally identifiable information found on this form is not intended to be used for any other purpose. The Department of Natural Resources (DNR) may provide this information to requesters as required by Wisconsin's Public Records law {ss. 19.31 – 19.39, Wis. Stats.}.

Instructions: Applications may combine more than one source of funds. They may be submitted for consideration of traditional ATV, UTV, Snowmobile and Motorized Stewardship funding. Submit one copy of all forms and attachments. See Page 2 for necessary attachments. Send applications to your [Community Services Specialist](#).

DNR Use Only	
Category	Number

Section 1: Applicant Information

Applicant / Organization Name Lincoln County Forestry, Land and Parks Department			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input checked="" type="checkbox"/> Select if the same as applicant.		
Individual Authorized to Act on Behalf of Applicant per Resolution Dean Bowe			Check Recipient Name (Name to Appear on Check) Dean Bowe		
Title County Forest Administrator			Title County Forest Administrator		
Address 801 North Sales Street Suite 106			Address 801 North Sales Street Suite 106		
City Merrill	State WI	ZIP Code 54452	City Merrill	State WI	ZIP Code 54452
Telephone Number (715) 539-1034		Email Address dean.bowe@co.lincoln.wi.us			

Section 2: Project Information Required for all Projects

Project Title Hilt Lake Summer ATV UTV Bridge Rehab					Current Funded Miles 47.4	New Miles (if applicable)
County Lincoln	Township 35 N	Range 8	Section 14	¼ ¼ NW	¼ SE	GPS Coordinates: Lat. 45.515 Long. -89.457

Project Description Summary

Lincoln County is requesting funding to rehab an existing wooden bridge on our summer ATV/UTV trail system. This bridge is located on a highly used segment of trail that connects to Oneida County. Failure to repair the bridge soon will result in the closure of this important segment of trail. A recent bridge inspection from a 3rd party found the bridge's deck and wear surface to be in poor condition. The wooden 98'x13' bridge was constructed in 2015 with grant funding from the WI DNR summer ATV program. The bridge lies in a low damp area that receives very little direct sunlight. The high moister environment that this bridge is located in has resulted in a rapid deterioration of the bridge's deck and wear surface. The funds being applied for will be used to replace the bridge's deck, wear surface, and railings. Since the bridge is in a high moisture area ground contacted treated lumber will be used.

**At the time of this application submittal we are still waiting for a contractor to get back to us with an estimate. We are hopeful the estimate comes in soon and that we are able to update the application.

I certify that all maintenance land use agreements are on file.

07/24/2025 -- 2 estimates provided.

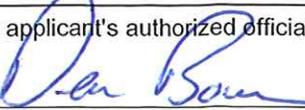
Estimated Cost

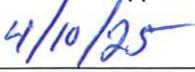
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
			\$80,000.00			\$80,000.00
Leave Blank – DNR Use Only						
			\$110,810.00			\$110,810.00

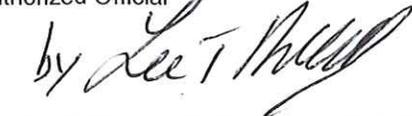
Applicant Certification

Printed Name of Authorized Official Dean Bowe	Official's Title County Forest Administrator
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As the applicant's authorized official, I certify that, to the best of my knowledge, the information in this application is true and correct.


 Signature of Authorized Official


 Date Prepared

Prepared by 

Appendix A – Required for Bridge Rehab/Replace, New, or Reroute with New Bridge

Bridge Rehab/Replace New Bridge Reroute with new bridge

County Lincoln	Township 35 N	Range 8	Section 14	¼ ¼ NW	¼ SE	GPS Coordinates: Lat. 45.515 Long. -89.457
Water Body Name Unnamed stream			Bridge Name Oneida Connection Bridge			County Inventory Number 28
Funded Trail Name or Number (SNARS if applicable) Oneida Connection Summer ATV/UTV Trail			Has this bridge site ever received development or rehabilitation funds in the past? <input checked="" type="radio"/> Yes <input type="radio"/> No Year: 2014 \$ 50,270.00			
Bridge is located on: <input type="radio"/> Private property <input checked="" type="radio"/> Public property			Old Bridge/Culvert Size 98'x13'			New Bridge/Culvert Size 98'x13'
Landowner Where Bridge is Located Lincoln County Forest			Telephone Number (715) 539-1034		Length of Trail Use Agreement (5 year minimum) Public Land	
Current maximum load 14,000 lbs.		Age of Bridge 10		Bridge Material Wood		
Proposed maximum load 14,000 lbs.						
Sponsoring Club Name Lincoln County			Club Contact Dean Bowe		Telephone Number (715) 539-1034	
Do you have your trail bridges posted as to maximum load? <input type="radio"/> Yes <input checked="" type="radio"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge?			
What is the weight of your puller & drag/grading equipment? Grading equipment is not taken across the bridge.						
What other recreational trail uses are planned for this bridge? None						
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users?						

- Yes No Have you contacted your local [DNR Water Management Specialist \(WMS\)](#) regarding a permit?
- Yes No Is a permit needed? (Please provide any written correspondence from WMS.)
- Yes No Have you contacted your County Zoning Dept. regarding a floodplain determination?
- Yes No Will an H & H (hydrologic and hydraulic) study be required?

Bridge Project Detailed Description

Lincoln County is requesting funding to rehab an existing wooden bridge on our summer ATV/UTV trail system. This bridge is located on a highly used segment of trail that connects to Oneida County. Failure to repair the bridge soon will result in the closure of this important segment of trail. A recent bridge inspection from a 3rd party found the bridge's deck and wear surface to be in poor condition. The wooden 98'x13' bridge was constructed in 2015 with grant funding from the WI DNR summer ATV program. The bridge lies in a low damp area that receives very little direct sunlight. The high moisture environment that this bridge is located in has resulted in a rapid deterioration of the bridge's deck and wear surface. The funds being applied for will be used to replace the bridge's deck, wear surface, and railings. Since the bridge is in a high moisture area ground contacted treated lumber will be used.

**At the time of this application submittal we are still waiting for a contractor to get back to us with an estimate. We are hopeful the estimate comes in soon and that we are able to update the application.

Appendix A (continued)

Summarize Costs in Appropriate Categories:

Bridge Structure

Quote 1

Quote 2

Steel Wooden

Steel Wooden

Bridge Dimensions: _____

Bridge Manufacturer: _____

Design Weight Load _____ lbs.

_____ lbs.

Cost of Structure: 1. Engineering \$ _____

\$ _____

2. Structure \$ _____

\$ _____

Subtotal \$ _____

\$ _____

Quote 1

Quote 2

Contractor or Sponsor
Estimate

Contractor or Sponsor
Estimate

Installation Costs:

1. Engineering \$ _____

\$ _____

2. Site Preparation \$ _____

\$ _____

3. Abutments \$ _____

\$ _____

4. Pilings/Piers \$ _____

\$ _____

5. Approaches \$ _____

\$ _____

6. Riprap \$ _____

\$ _____

7. Labor \$ _____

\$ _____

8. Equipment Rental \$ _____

\$ _____

9. Culverts \$ _____

\$ _____

10. H & H Study \$ _____

\$ _____

11. Wetland Delineation \$ _____

\$ _____

12. Other _____ \$ _____

\$ _____

Subtotal \$ _____

\$ _____

Total Cost \$ _____

\$ _____

For the application grant, you must take the lowest of the two quotes.

Entire Deck and Railing Projects

Contractor Sponsor Club

Bridge Dimensions: 98'x13'

Design Weight Load _____ 14,000 lbs.

1. Materials \$ _____

2. Labor \$ _____

Total \$ _____

2 estimates provided due to potential extent of deck replacement, including portions of the substructure.

Custom Bridges = \$141,000.00

Larson Construct = \$110,810.00

See attached estimates.

To: Lee Rahlf, Lincoln County, WI
 From: Joe Krebs
 Date: 6/12/2025
 Subject: Hilts Lake Bridge Rehab Grant Estimate

Thank you for your patience in getting this back to you. After discussing with Connor, he would prefer us to approach this as a typical bridge and use a steel sub structure with lumber decking. This would mean it would be 3 flat bridges connected end to end. The first one would be 28' and the other two would be 35' to total the 98'

Up on investigation, all our dimensional lumber from Northern Crossarm is already Ground Contact Treated. This includes all the deck boards and other lumber for upcoming bridge projects.

As an alternative to the lumber deck, it is possible to use an FRP Decking system. This Fiber Reinforced Polymer Deck Grid is thick/strong enough; a single deck would work, has holes to drain moisture, and would come with a 7-year structural warranty. A rubber Mat could be placed on the FRP Grid without degrading the FRP like it would with wood.

Hilts Lake Bridge Rehab – Grant Estimate

98' Long x 13' wide Bridge - 90 psf Pedestrian Load / 14k vehicle load - 2x10 deck boards, Double Deck - I-Beam Sub Structure - On existing Abutments - 42" Trail Rail - Stamped Drawings - Installation & Equipment - Shipping	\$141,000.00
OPTION - FRP Deck Materials	+ 36,750

This is a Grant estimate, so there is a bit larger increase than a typical estimate to allow for the time to approval and material projections. If we bid today, the bridge would be around \$115k. The FRP upcharge would not change.

Joe Krebs
 Engineering and Development Manager
jv@custommfginc.com
 608-676-2282



Larson Construction Co Inc

19681 - 55th Avenue
 Chippewa Falls WI 54729
 PH 715.723.9708
 FX 715.723.4515

Lincoln County
 Hills Lake ATV Bridge Rehab

Line No	Item No	Description	Quantity	Unit	Unit Price	Total
1		Materials to replace decking, wearcourse, & handrails with Q-NAP lumber	1.00	Lump	\$ 53,490.00	\$ 53,490.00
2		Labor to remove old deck & install new deck	1.00	Lump	\$ 57,320.00	\$ 57,320.00
						\$110,810.00

Notes:

- 1 Larson Construction is a Union Contractor.
- 2 Wear course to be 2" thick oak plank; hand rail to be waterborne treated for human contact; deck materials & stringers to be QNAP
- 3 Work to be performed in fall-winter months only. Summer repairs will carry a 20% premium on labor

Tim MacLaughlin-Barck

Signed:

 Tim MacLaughlin-Barck

Date:

7/22/2025

Title:

 VP, Operations

Accepted:

 Date:
 Title:

Date:

Title:

GENERAL

- ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "WISCONSIN COMMERCIAL BUILDING CODE".
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- THE TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SAFETY DURING CONSTRUCTION.

DESIGN LOADS

- LIVE LOADS: (1) 85 PSF PEDESTRIAN
(2) 12,000 LB GROOMER
- SNOW LOADS: 50 PSF WITH LEVELLOAD (2)
- WIND LOADS: 30 PSF

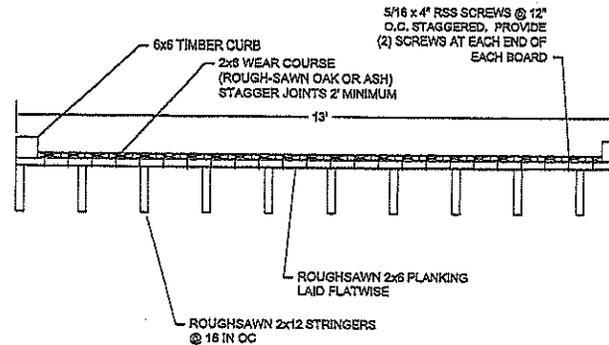
FOUNDATIONS

- FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF DRIVEN TIMBER PILES.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR GEOTECHNICAL REPORTS. THESE DATA ARE INCLUDED TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTICULAR TIME OBSERVATIONS WERE MADE.
- MINIMUM PILE EMBEDMENT SHALL BE 12'-0" BELOW ADJACENT FINISH EXTERIOR GRADE.
- PILING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EFFORT REQUIRED TO REACH SUITABLE BEARING MATERIAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT WHICH WILL ENDANGER ADJACENT STRUCTURES, STREETS OR UTILITIES.

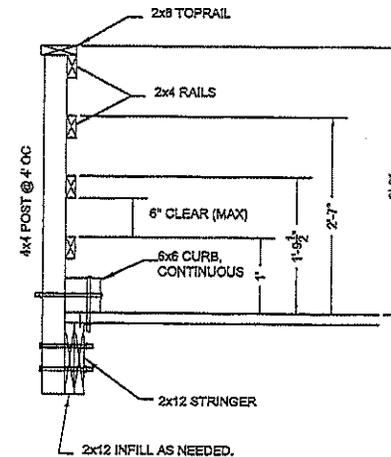
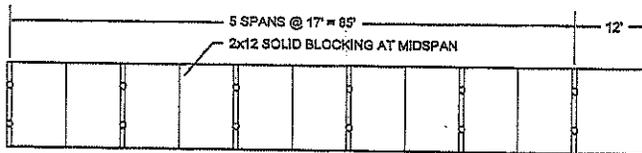
STRUCTURAL WOOD CONSTRUCTION

- WOOD MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
AF&PA - "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION"
AF&PA - "DESIGN VALUES FOR WOOD CONSTRUCTION"
AITC - "TIMBER CONSTRUCTION MANUAL, PART II, DESIGN SPECIFICATIONS"
APA - "U.S. PRODUCT STANDARD PS 1-83 FOR CONSTRUCTION AND INDUSTRIAL FLYWOOD"
- STRUCTURAL WOOD SHALL BE VISUALLY GRADED IN ACCORDANCE WITH ASTM D1990-06e1 OR ASTM D245. WOOD SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY A RECOGNIZED INSPECTION AGENCY.
- ALL WOOD SHALL HAVE A MOISTURE CONTENT OF 19% OR LESS PRIOR TO INSTALLATION.
- NEW WOOD SHALL HAVE ALLOWABLE UNIT STRESSES ACCORDING TO THE SCHEDULE OF WOOD DESIGN STRESSES SHOWN ON THE DRAWINGS.
- JOISTS SHALL BE BRIDGED WITH 1 X 3 CROSS BRIDGINS, OR EQUAL, AT INTERVALS NOT EXCEEDING 8'-0".
- ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS, OR JOIST HANGERS.
- ALL WOOD PERMANENTLY EXPOSED TO THE WEATHER, IN CONTACT WITH EXTERIOR CONCRETE, OR IN CONTACT WITH THE GROUND SHALL HAVE A PRESERVATIVE TREATMENT EQUAL TO 0.4 P.C.F. RETENTION OF PRESSURE INJECTED PRESERVATIVE.

- WOOD PLANK DECKING SHALL BE INSTALLED IN THE "CONTROLLED RANDOM LAY-UP" PATTERN, CONTINUOUS OVER THREE SPANS.
- WOOD PLANK DECKING SHALL BE FACE NAILED TO EACH SUPPORT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- USE COMMON WIRE NAILS UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307. USE STEEL WASHER BETWEEN HEAD OF BOLT OR LAG SCREW AND WOOD. USE STEEL WASHER BETWEEN NUT AND WOOD.
- ALL FASTENERS USED FOR PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL. STAINLESS STEEL IS PREFERRED.
- JOIST HANGER FASTENERS MUST BE AS SUPPLIED AND/OR REQUIRED BY THE JOIST HANGER MANUFACTURER.
- WEAR DECK SHALL BE FASTENED TO SUB-DECK USING 3/8" x 4" RUGGED STRUCTURAL SCREWS (RSS) WITH CLIMATEK COATING.



TYP SECTION THROUGH BOARDWALK



RAIL POST ATTACHMENT TO WOOD STRINGER WITH INFILL BLOCKING

WOOD FRAMING DESIGN STRESSES						
MEMBER	SPECIES & GRADE	Fb Single Use (psi)	Fy (psi)	Fc (psi) PERP-NDICULAR TO GRAIN	Fc (psi) PARALLEL TO GRAIN	E (psi)
JOISTS AND BEAMS	SYP #1	1,250	175	565	1,600	1,700,000
DECK AND CURBS	DF #2	875	95	625	1,300	1,600,000
POSTS & TIMBERS	SYP #1	1,350	165	375	875	1,500,000
PILES		---	---	---	800	---

Larson Engineering, Inc.
2801 E. Edwards Avenue, Suite 200
Appleton, WI 54912-2782
920.232.5577 Fax: 920.731.9880
www.larsoneng.com

**PINE LAKE
ATV BOARDWALK**
LINCOLN COUNTY
WISCONSIN

McMULLEN & PITZ
17 MARITIME DRIVE
MANITOWOC, WI

SEAL

Date: _____
Design: PFM

No.	Date	Description
1	9/30/15	Added span

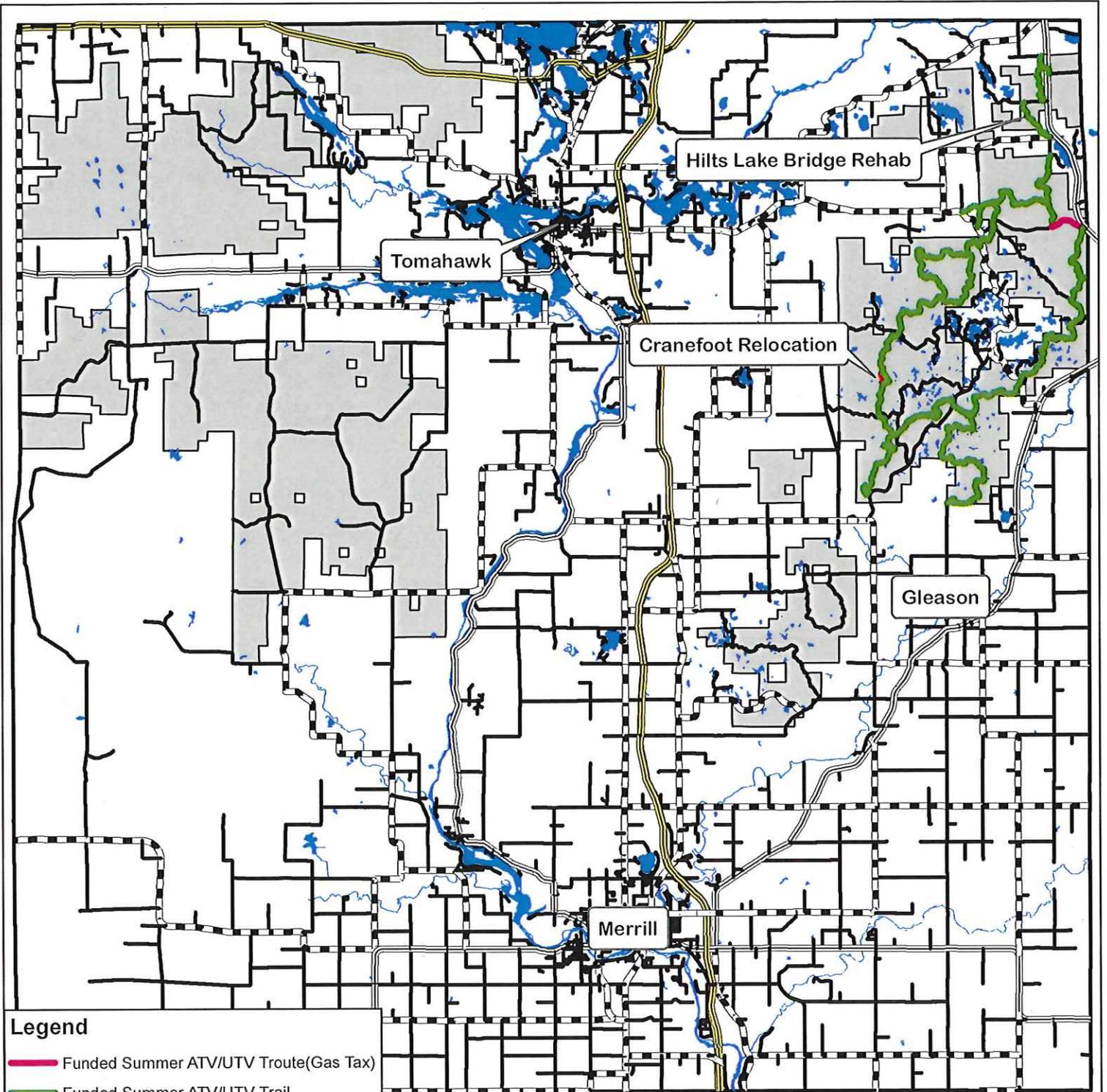
Project#: 31150000.000
Drawn by: SBK
Checked by: SEK

Sheet Title:
NOTES AND SCHEDULES

S1.0

Lincoln County 2025

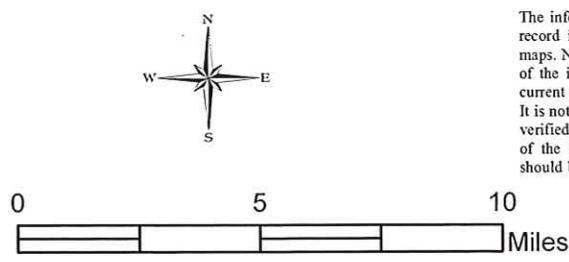
Funded Summer ATV/UTV Trail and Troute with Projects



Legend

-  Funded Summer ATV/UTV Troute(Gas Tax)
-  Funded Summer ATV/UTV Trail
-  Cranefoot Relocation
-  US HIGHWAY
-  STATE HIGHWAY
-  COUNTY HIGHWAY
-  FOREST ROAD GAS-TAX
-  FOREST ROAD NO-GAS-TAX
-  TOWN/CITY
-  County Forest

0 5 10 Miles

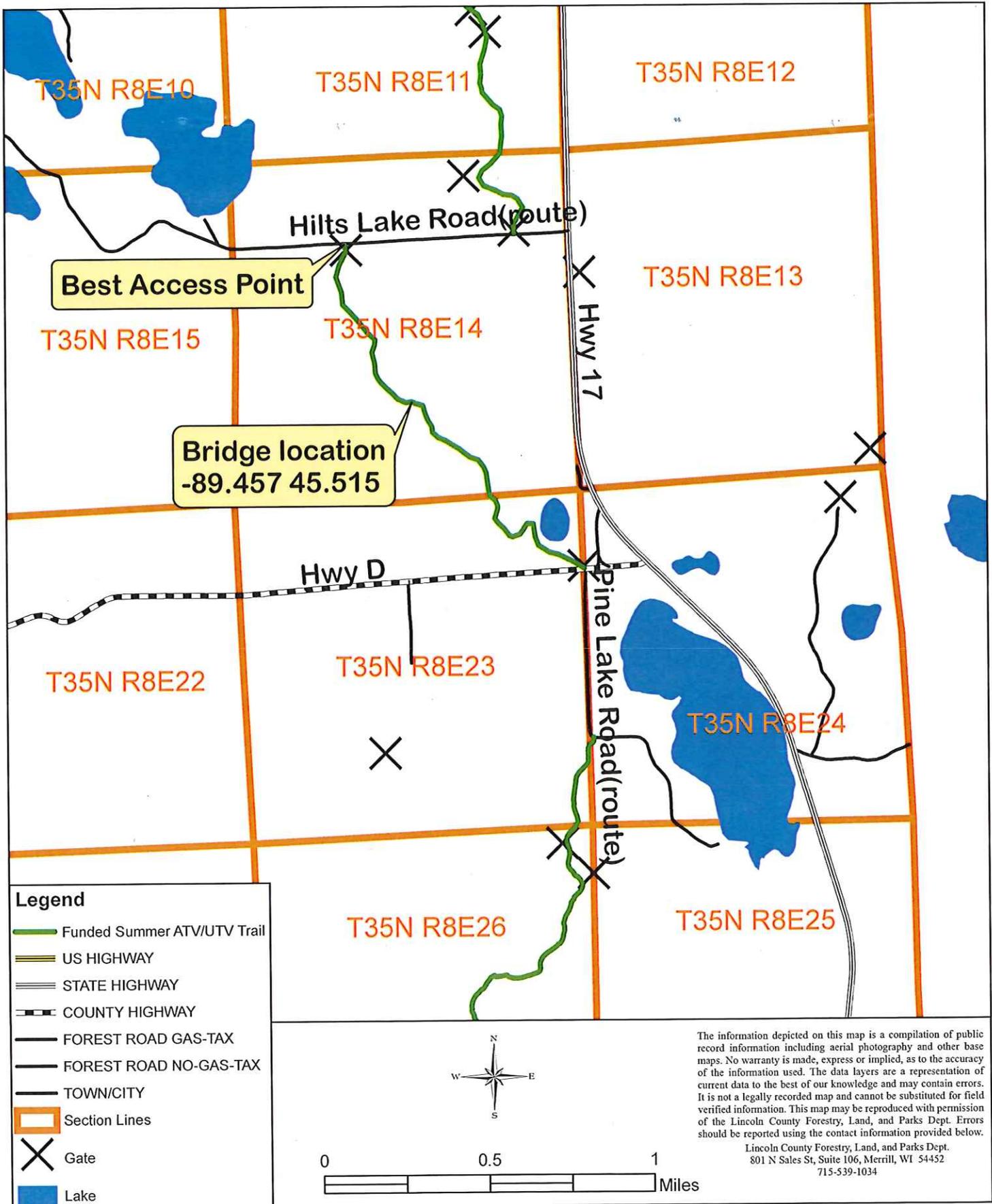


A north arrow is located above a scale bar. The scale bar is marked with 0, 5, and 10 miles.

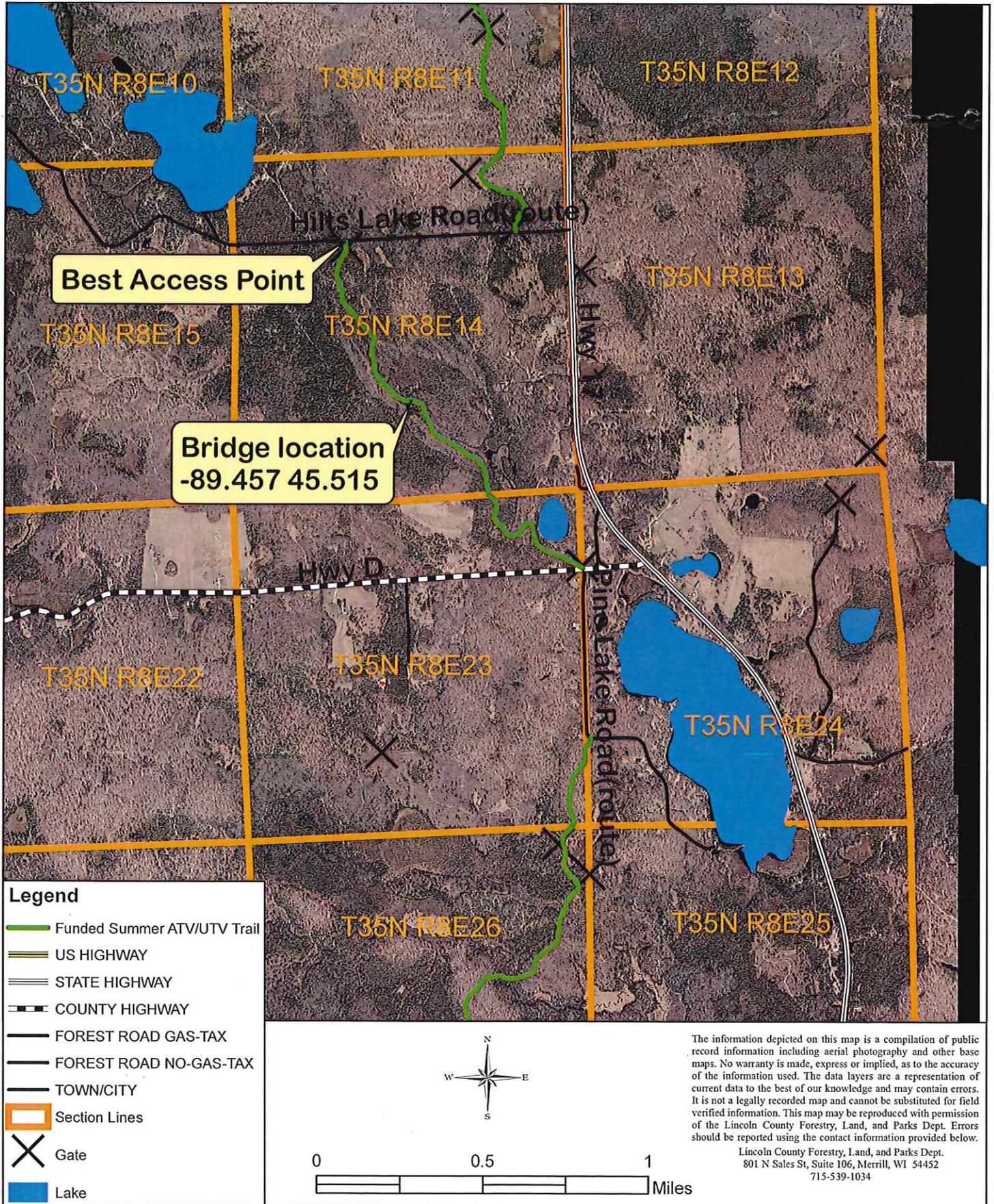
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Lincoln County Forestry, Land, and Parks Dept.
801 N Sales St, Suite 106, Merrill, WI 54452
715-539-1034

Lincoln County Hilts Lake Summer ATV/UTV Bridge Rehab



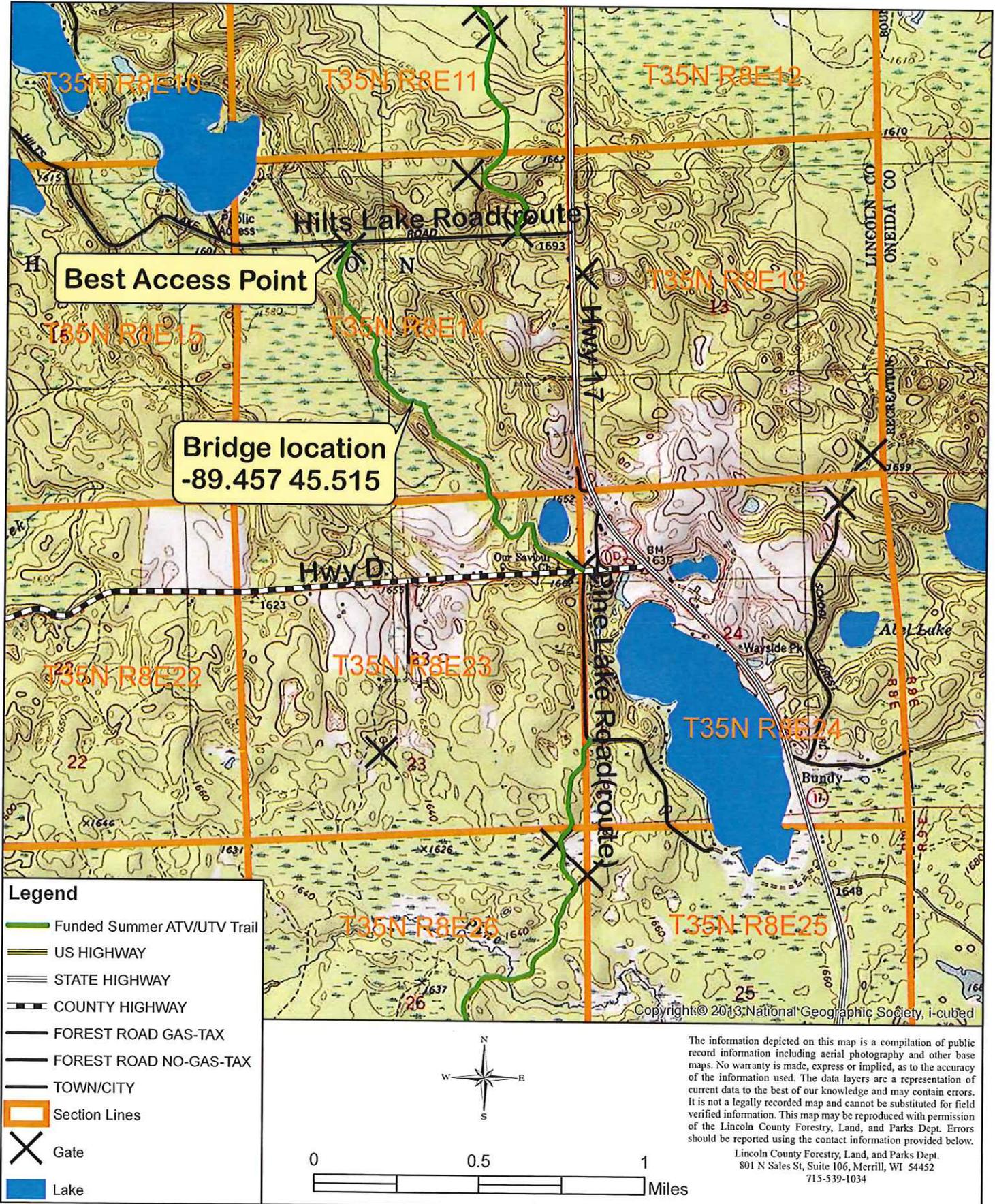
Lincoln County Hills Lake Summer ATV/UTV Bridge Rehab



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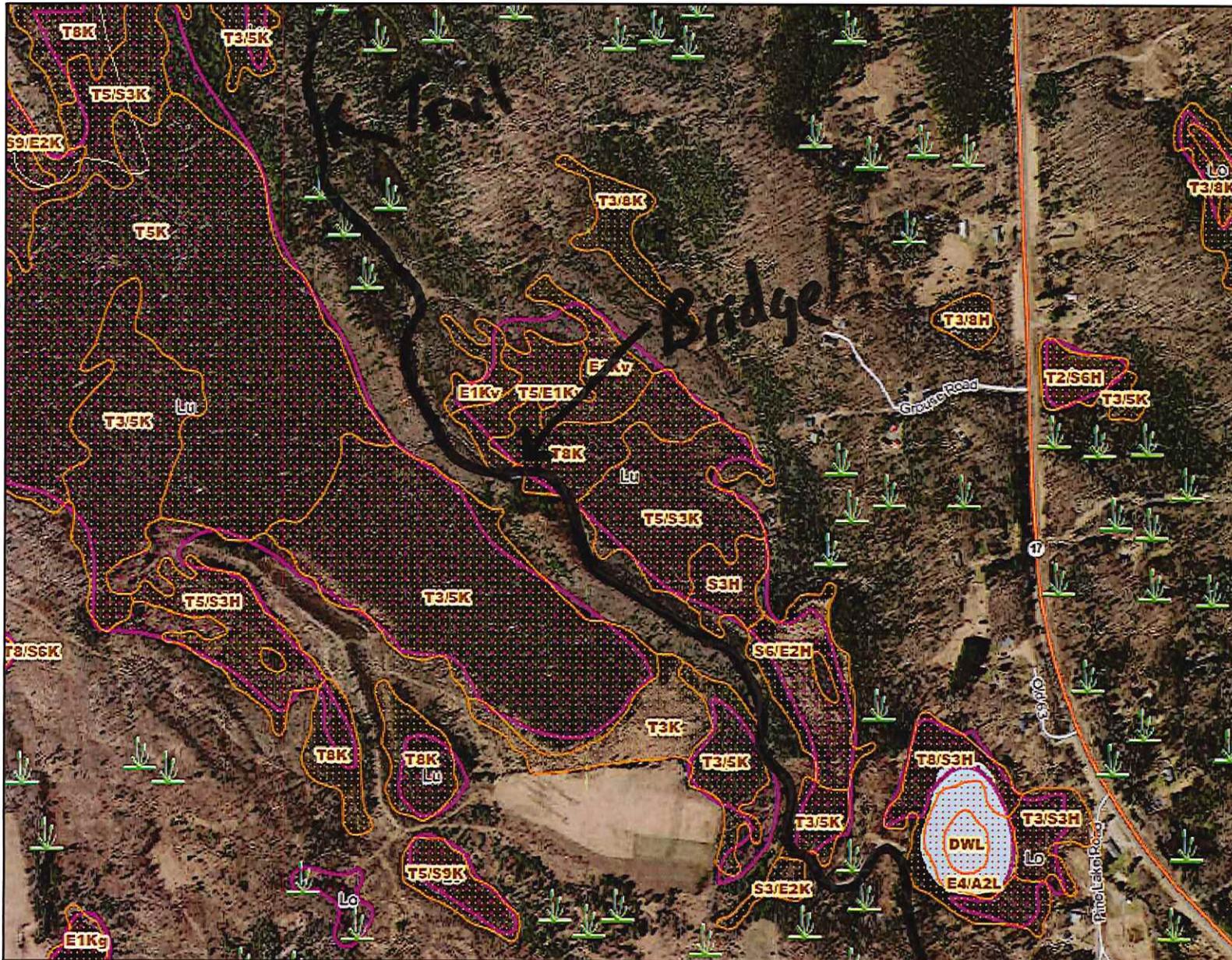
Lincoln County Forestry, Land, and Parks Dept.
801 N Sales St, Suite 106, Merrill, WI 54452
715-539-1034

Lincoln County Hilts Lake Summer ATV/UTV Bridge Rehab





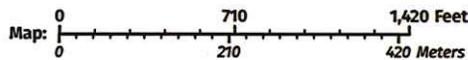
Lincoln County Hills Lake Summer ATV Bridge Rehab



Legend: (some map layers may not be displayed)

- Wetland Class Points**
- Wetland too small to delineate
 - Wetland Class Areas
 - Wetland Indicators
 - Rivers and Streams
 - Intermittent Streams
 - Open Water
 - 24K Lakes and Open Water
 - County Boundaries
- Major Roads**
- State Highway
- County and Local Roads**
- County HWY
 - Local Road

Notes:



Service Layer Credits:
 Latest Leaf Off: , Wetland Indicators & Soils: Surface Water Data Viewer Team, Wisconsin Wetland Inventory NWI (Dynamic): Calvin Lawrence, Dennis Weise, Nina Rihn, Cities, Roads & Boundaries: , Surface Water (Cached): WiDNR, USGS, and other data

Map projection: NAD 1983 HARN Wisconsin TM

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Date Printed: 3/14/2025 3:54 PM



Trail Bridge Inspection

Lincoln County

Bridge Name

Baily

Inspected By:

Patrick Hampston, P.E.

10/12/24

Prepared By

KBIS, LLC



Bailey Trail Bridge



Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. Inspectors are Bridge Inspection Team Leaders and NSTM certified inspectors.

The bridge was inspected with trail use in mind, using normal vehicle bridge standards to determine the condition of the structure.

All recommendations made in the report are also considering the use of the trail. Trail bridges in general should have a load rating considering all the possible uses of the structure. Even though the bridges may be just for snowmobiles, several types of vehicles may use the structure.

Location information/General Description:

Located south of Hilts Lake Road, Langlade County.
45.515028°, -89.456693°

Bridge Condition

Condition State (CS) 1-Good, CS2-Fair, CS3-Poor, CS4-Critical

Abutments, pile bents, and spans are numbered along the trail from south to north. Girders are numbered from upstream to downstream.

Bridge has timber railings, timber wearing surface, timber transverse deck planks, timber stringers, on timber pile abutments.

Length 97.8', Width 13.0', 8.5' clearance from deck to stream bottom.

Wearing surface has CS3 wear at center and scattered sections that are CS4, completely rotten or gone. Edges are gravel covered.

Decking has widespread CS3 black / white rot. No drainage under curbs.

Stringers have widespread black mold staining, sounded solid, but will begin to rot soon, CS2.

Abutments have slight undermining of backwalls, CS2. Piles and pile caps have some minor checking.

Channel is in good condition. There is a tree over the stream downstream.

Bailey Trail Bridge



W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Approaches are in good condition. Bridge ahead signs are CS1. Object markers are CS1.

Bridge Inspection Report

Report Summary

NBI Ratings: 9-7 Good, 6-5 Fair, 4-3 Poor, 2-1 Critical, 0-Closed

Deck	# 4	Widespread major defects, strength affected
Wearing Surface	# 4	Widespread major defects, strength affected
Superstructure	# 6	Widespread minor defects
Substructure	# 7	Some minor defects
Channel	# 8	Some inherent defects

Overall Condition Poor

Recommendations/Maintenance Items:

- Replace entire deck / wearing surface
- Highly recommend load rating superstructure before redecking. (questionable capacity for groomers by inspection)
- Clean deck
- Add scupper blocks under curbs for drainage

Signed By:



Digitally signed by Patrick
Hampston
Date: 2024.10.12 19:59:11
-05'00'

Patrick Hampston, P.E.

Bridge Inspection Report

Photo Observations



West bridge ahead sign

Bridge Inspection Report

Photo Observations



East bridge ahead sign

Bridge Inspection Report

Photo Observations



West approach

Bridge Inspection Report

Photo Observations



Top of deck

Bridge Inspection Report

Photo Observations



Channel looking upstream

Bridge Inspection Report

Photo Observations



Channel looking downstream

Bridge Inspection Report

Photo Observations



Typical deck underside

Bridge Inspection Report

Photo Observations



West abutment

Bridge Inspection Report

Photo Observations



East abutment

Bridge Inspection Report

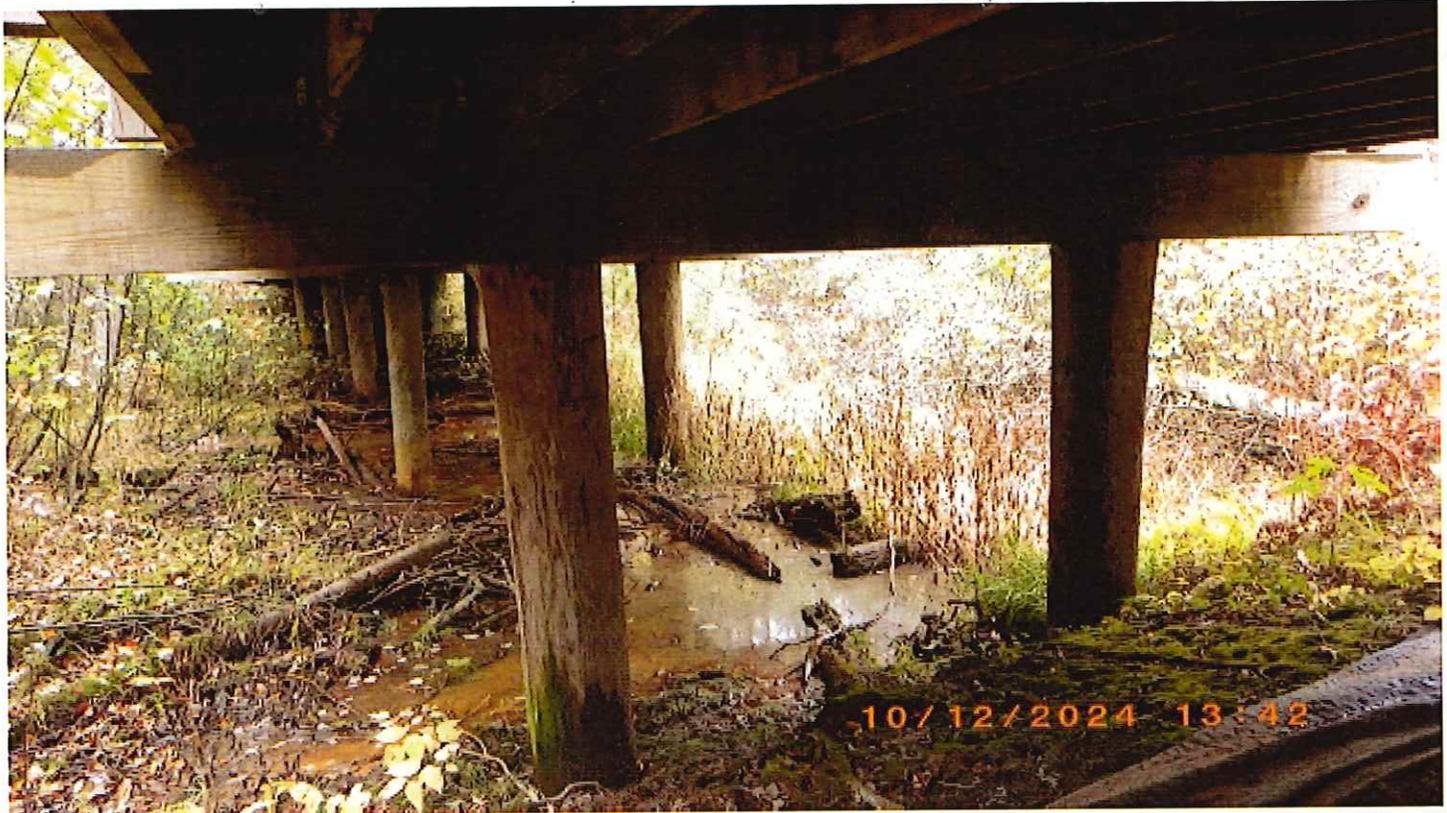
Photo Observations



Upstream elevation view

Bridge Inspection Report

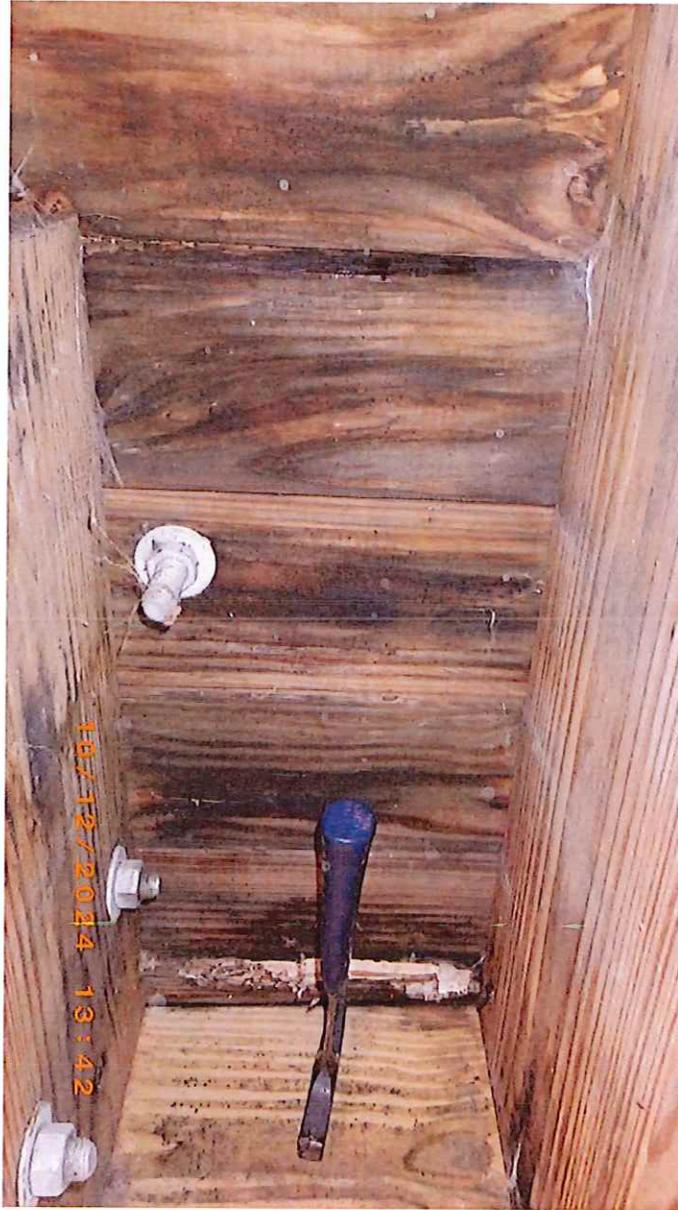
Photo Observations



Typical pier elevation view

Bridge Inspection Report

Photo Observations



Rotten deck planks

Bridge Inspection Report

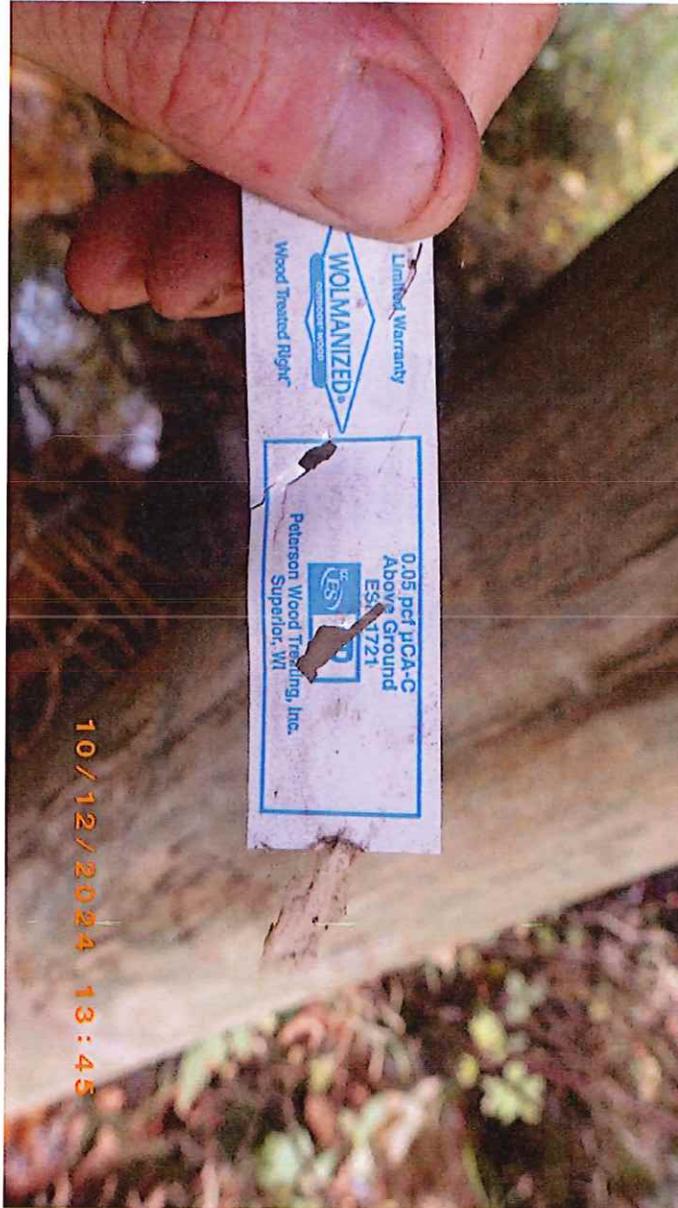
Photo Observations



Rotten deck planks

Bridge Inspection Report

Photo Observations



Preservative tag Copper Azole, 0.05 pcf above ground (insufficient treatment for high humidity bridge use)

Bridge Inspection Report

Photo Observations



tag location on stringer