

#7 Oneida Tomahawk River Bridge Redecking

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 Oneida County Forestry 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 Eric Rady -			Check Recipient Name (Name to Appear on Check) Eric Rady -		
Title Assistant Forestry Director			Title Assistant Forestry Director		
Address PO Box 400-Court House, 2nd Floor, Room # B206			Address PO Box 400-Court House, 2nd Floor, Room # B206		
City Rhineland	State WI	ZIP Code 54501	City Rhineland	State WI	ZIP Code 54501
Telephone Number (715) 369-6234		Email Address erady@oneidacountywi.gov			

Section 2: Project Information Required for all Projects

Project Title Redeck Tomahawk River Bridge (South)					Current Funded Miles 431.6	New Miles (if applicable)
County Oneida	Township Tomahawk	Range 36 N	Section 6	Section 2	GPS Coordinates: Lat. 45.63673 Long. -89.70749	

Project Description Summary

The ~~State~~ bridge was built in 1995 on State DNR Lands (west side) & deeded private land (east side) over the Tomahawk River. The wear course on this bridge was replaced back in 2006 and is currently in very poor condition and needs another wear course as soon as possible. There are many areas of the decking that do not look too bad, although, it is 90% rotten. As shown from the pictures, certain areas of the bridge have already been exposed to the subdeck. This bridge has already been patched with new wood in a couple areas, but now, it is beyond the club being able to "patch" the remaining areas of exposed sub-deck and rotten boards.

This 230-foot by 12-foot wide wood bridge is on the main funded Trail 8.

The project will consist of the old wear course being removed and hauled to a dump with a new 2" hardwood deck (likely white or red oak) installed to the sub-deck and screwed down with a 4-inch hex lag head.

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

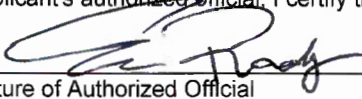
Estimated Cost

Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$26,835.00		\$26,835.00
Leave Blank – DNR Use Only						

Applicant Certification

Printed Name of Authorized Official Eric Rady	Official's Title Assistant Forestry Director
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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

4-10-2024
 Date Prepared

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

Bridge Rehab/Replace New Bridge Reroute with new bridge

County Oneida	Township 36 N	Range 6	<input checked="" type="radio"/> E <input type="radio"/> W	Section 2	¼ ¼ SE	¼ NW	GPS Coordinates: Lat. 45.63673 Long. -89.70749
Water Body Name Tomahawk River				Bridge Name Tomahawk River Bridge (South)		County Inventory Number Oneida #42	
Funded Trail Name or Number (SNARS if applicable) Trail 8				Has this bridge site ever received development or rehabilitation funds in the past? <input checked="" type="radio"/> Yes <input type="radio"/> No Year: 2006 \$ 10,000.00			
Bridge is located on: <input type="radio"/> Private property <input checked="" type="radio"/> Public property				Old Bridge/Culvert Size _____ New Bridge/Culvert Size _____			
Landowner Where Bridge is Located State Land on west side & deeded private on east side				Telephone Number (715) 614-5118		Length of Trail Use Agreement (5 year minimum) Forever	
Current maximum load 19,000 lbs.		Age of Bridge 29		Bridge Material All wood			
Proposed maximum load _____ lbs.							
Sponsoring Club Name Northern Trails Unlimited				Club Contact Darren Merkel		Telephone Number (630) 675-8263	
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? Corduroy Elevated Boardwalk rated for 19,000lbs			
What is the weight of your puller & drag/grading equipment? 16,500 combined total							
What other recreational trail uses are planned for this bridge? No other uses besides walking or fishing.							
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users? -0-							

- 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

The original bridge was permitted but no permit is needed for this redecking project.

This bridge will be inspected in this spring of 2024 and the report shall be ready for the DNR by August 1, 2024, as part of the grant application.

Appendix A (continued)

Summarize Costs in Appropriate Categories:

Bridge Structure

	Quote 1	Quote 2
	<input type="radio"/> Steel <input type="radio"/> Wooden	<input type="radio"/> Steel <input type="radio"/> Wooden
Bridge Dimensions:	_____	_____
Bridge Manufacturer:	_____	_____
Design Weight Load	_____ lbs.	_____ lbs.
Cost of Structure:		
1. Engineering	\$ _____	\$ _____
2. Structure	\$ _____	\$ _____
Subtotal	\$ _____	\$ _____

	Quote 1	Quote 2
	<input type="radio"/> Contractor or <input type="radio"/> Sponsor Estimate	<input type="radio"/> Contractor or <input type="radio"/> 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:	230' x 12'
Design Weight Load	_____ lbs.
1. Materials	\$ 19,235
2. Labor	\$ 7,600
Total	\$ 26,835

Guidelines for Applicant

Complete this form for each bridge structure you are submitting a grant application for. Provide any additional documents not requested on application checklist to substantiate your points, including actual deeded easements.

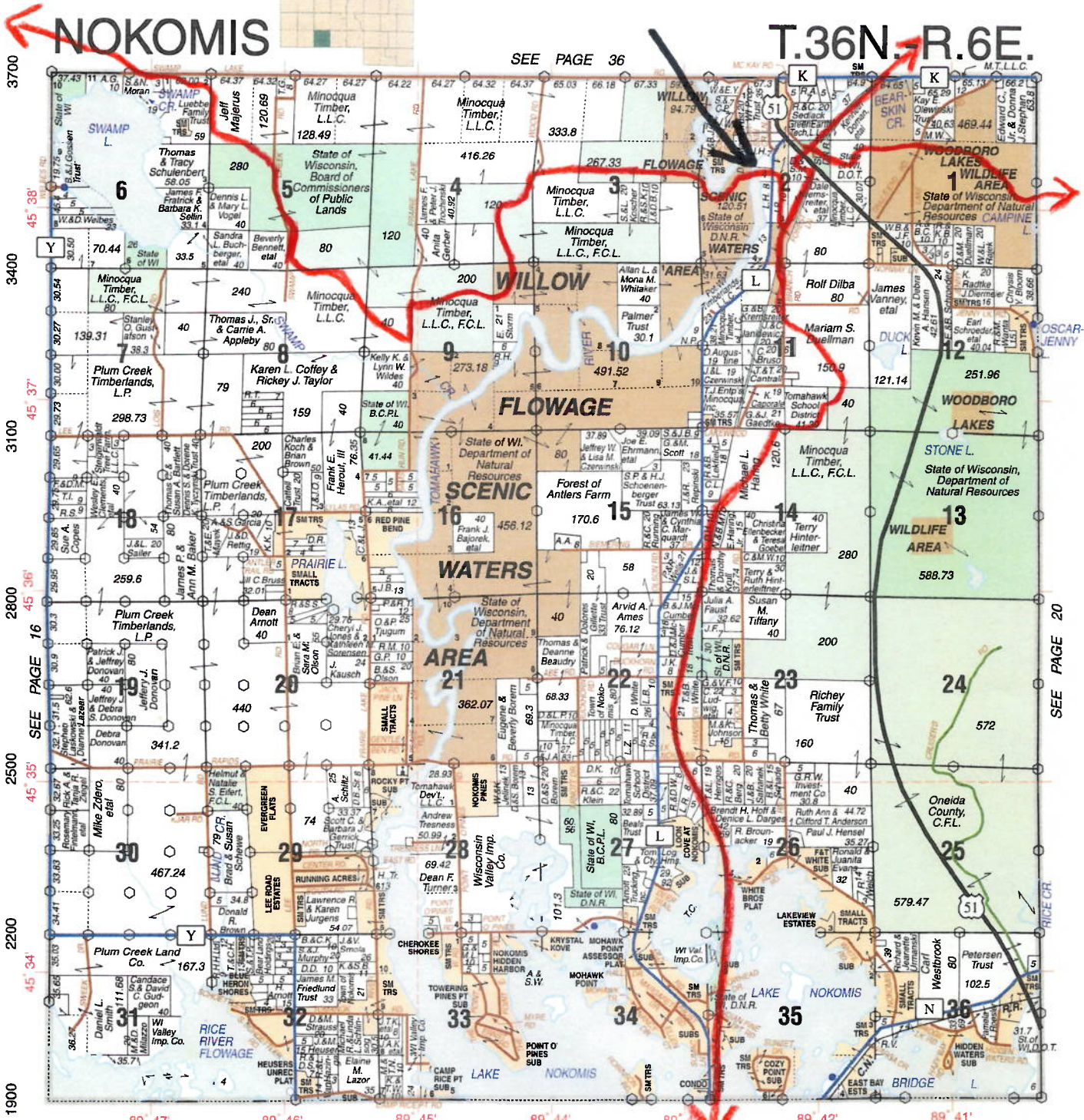
Category		Possible Points	Actual Points
1	Condition of the Structure (max of 10 points)		
	Has a certified bridge inspection report that supports the project & demonstrates need (see example, must provide copy of report by August 1 for 2024 only)	10	10
2	Permits (maximum points 4)		
	Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	xxx
	Permit in hand / Bridge already permitted	3	3
3	Funding (maximum points 2) Are other funds already committed?		
	50% or greater from other funding source(s)?	2	-
	11% - 49% from other funding source(s)?	1	
4	Length of Written Easements or Land Use Agreement (max points 5)(ch. 23.09(26)(am)1 WI Stats)		
	On public land (County, State, Federal)	5	WEST
	10 or more year deeded easement on private land or other public land, for all portions of that trail to the nearest road on each side of the bridge	5	EAST SIDE 5
	3-9 year deeded easement on private land or other public land, for all portions of that trail to the nearest road on each side of the bridge	4	
	10 or more year deeded easement on private land or other public land, for just the bridge site	3	
	3-9 deeded easement on private land or other public land, for just the bridge site	2	
	10 or more year land use agreement (LUA, not deeded) on private land or other public land	1	
	3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	
5	Miles Impacted – How many miles will need to rerouted if the structure is not replaced? Measured from nearest intersection on both sides of the bridge. (max 4 points)		
	Less than 20 miles	1	1
	20 miles or more	3	
	No other snowmobile trails connect. Explain: <i>The bridge already exists</i>	4	4
DEDUCTIONS			
6	County Active Project Deduction (maximum deduction 1 point) A snowmobile active project is one that has exceeded it's initial grant period.		
	Two or more active projects - deduct 1 point	-1	-
GRAND TOTAL			xxx

Comments/Notes:

TRB(s)

19

~ = FUNDED TRAIL



© 2012 Rockford Map Publs., Inc. 10900 89° 47' 10600 89° 46' 10300 89° 45' 10000 89° 44' 9700 89° 43' 9400 89° 42' 9100
 LINCOLN COUNTY Oneida County, WI

RE/MAX
PROPERTIES NORTH

Call us Toll Free
877.992.1188

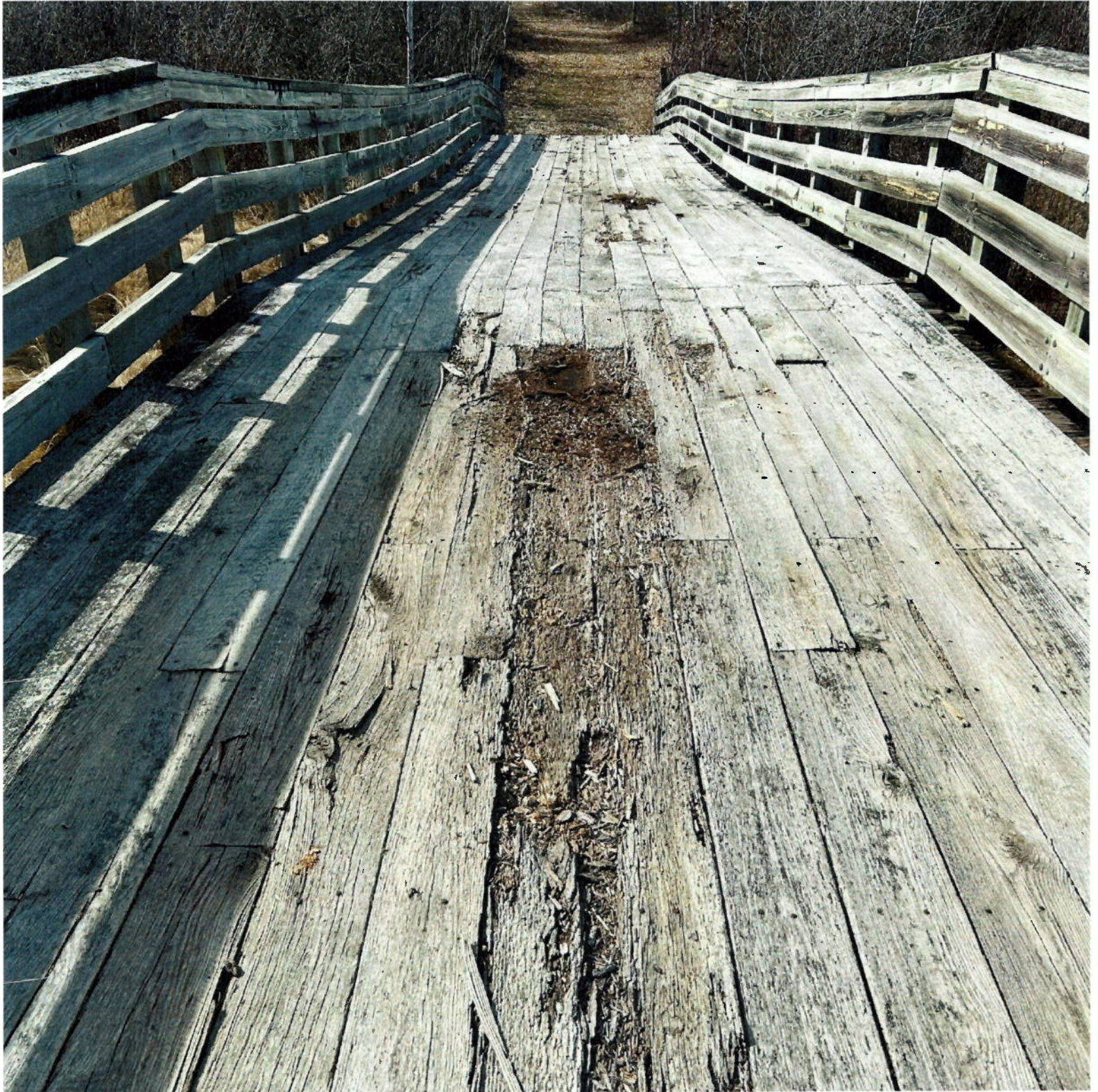
1412 N 4th St • PO Box 99
 Tomahawk, WI 54487

Each office independently owned and operated



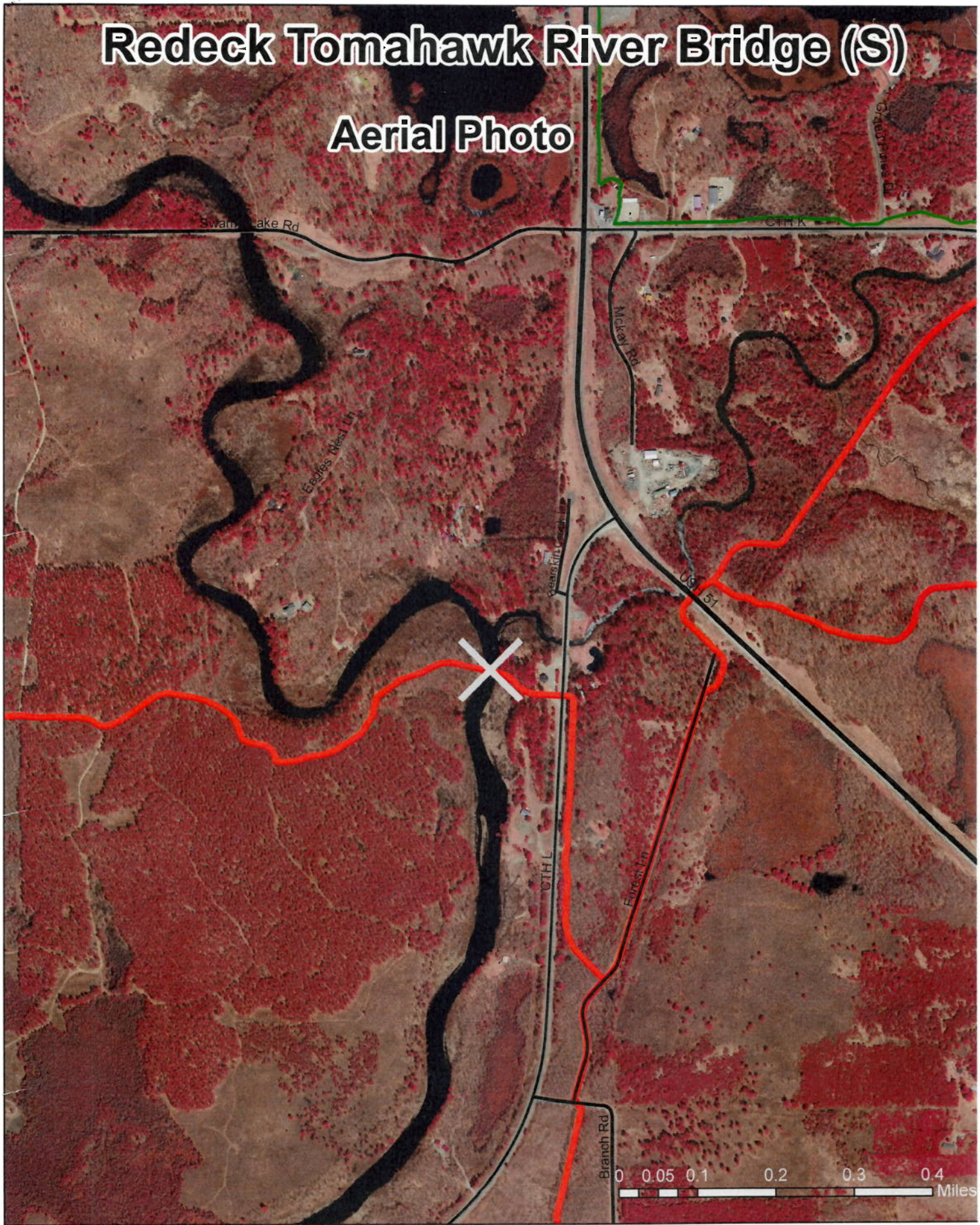
tomahawktothemax.com





Redeck Tomahawk River Bridge (S)

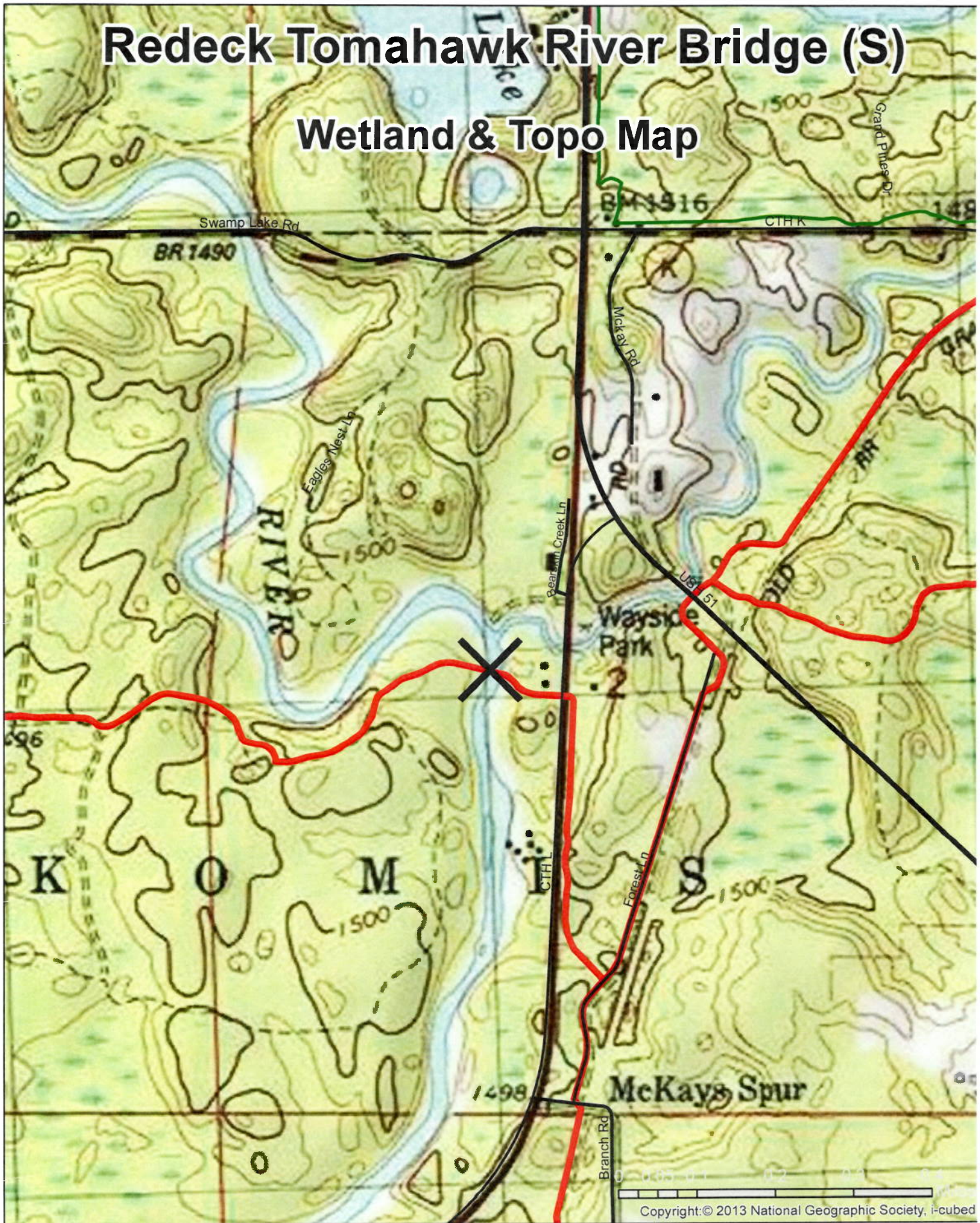
Aerial Photo



X Bridge Site

— Funded Snowmobile Trail

Redeck Tomahawk River Bridge (S) Wetland & Topo Map

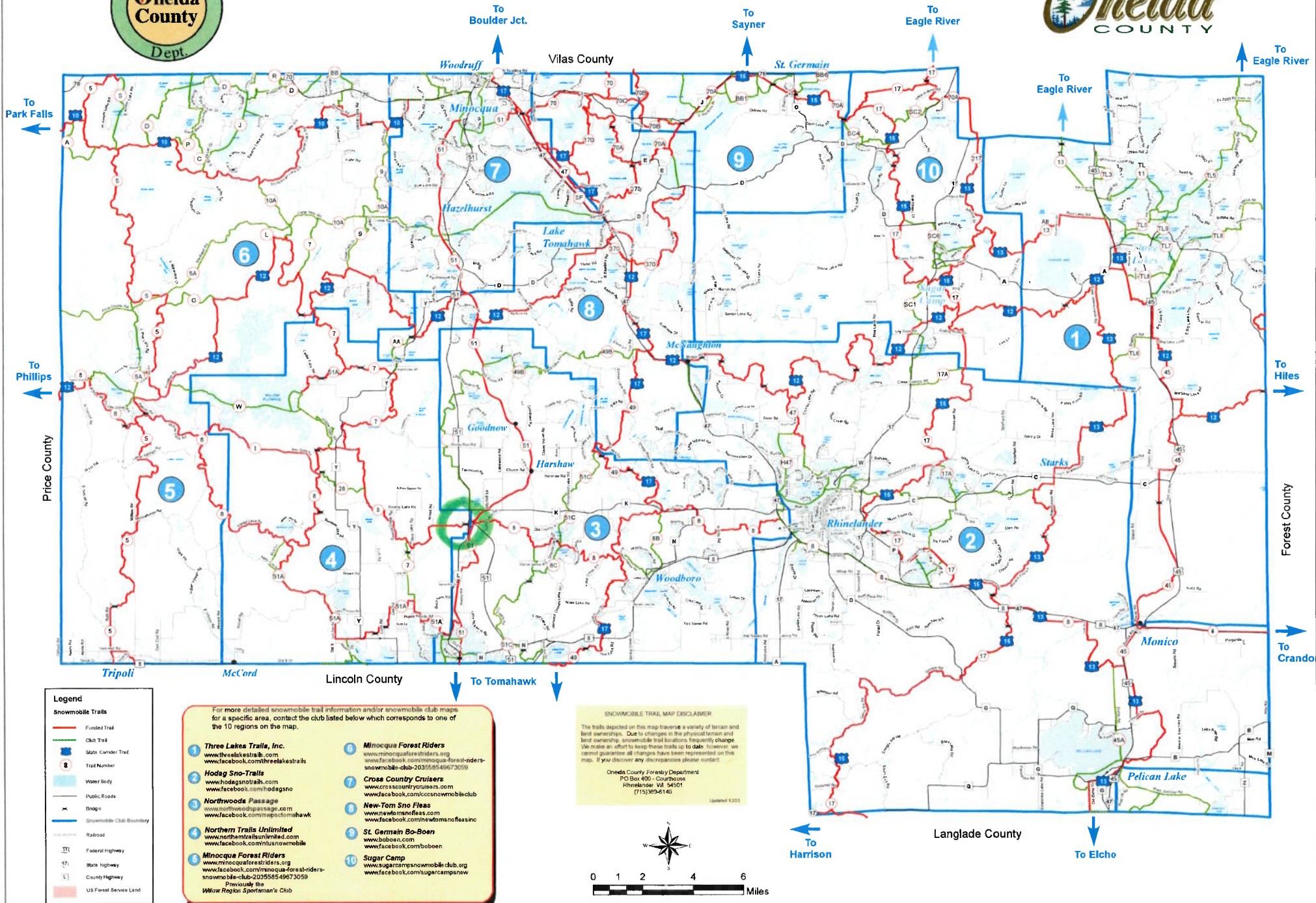


✕ Bridge Site

— Funded Snowmobile Trail



ONEIDA COUNTY SNOWMOBILE TRAIL SYSTEM



Legend

- Funded Trail
- Club Trail
- S State Center Trail
- 8 Trail Number
- Water body
- Public Roads
- Bridge
- Snowmobile Club Boundary
- Railroad
- Federal Highway
- State Highway
- County Highway
- US Forest Service Land

For more detailed snowmobile trail information and/or snowmobile club maps for a specific area, contact the club listed below which corresponds to one of the 10 regions on the map.

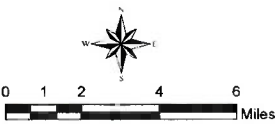
<p>1 Three Lakes Trails, Inc. www.threelakes trails.com www.facebook.com/threelakes trails</p> <p>2 Hodag Sno-Trails www.hodagsno trails.com www.facebook.com/hodagsno</p> <p>3 Northwoods Passage www.northwoods passage.com www.facebook.com/nwpassage</p> <p>4 Northern Trails Unlimited www.northern trails unlimited.com www.facebook.com/northern trails unlimited</p> <p>5 Minocqua Forest Riders www.minocqua forest riders.org www.facebook.com/minocqua forest riders snowmobile club 20358549673059 Previously the Willow Region Sportman's Club</p>	<p>6 Minocqua Forest Riders www.minocqua forest riders.org www.facebook.com/minocqua forest riders snowmobile club 20358549673059</p> <p>7 Cross Country Cruisers www.crosscountrycruisers.com www.facebook.com/crosscountrycruisers</p> <p>8 New-Tom Sno Fests www.newtomsnofests.com www.facebook.com/newtomsnofestsinc</p> <p>9 St. Germain Bo-Boen www.booben.com www.facebook.com/booben</p> <p>10 Sugar Camp www.sugarcampsnomobileclub.org www.facebook.com/sugarcampsnw</p>
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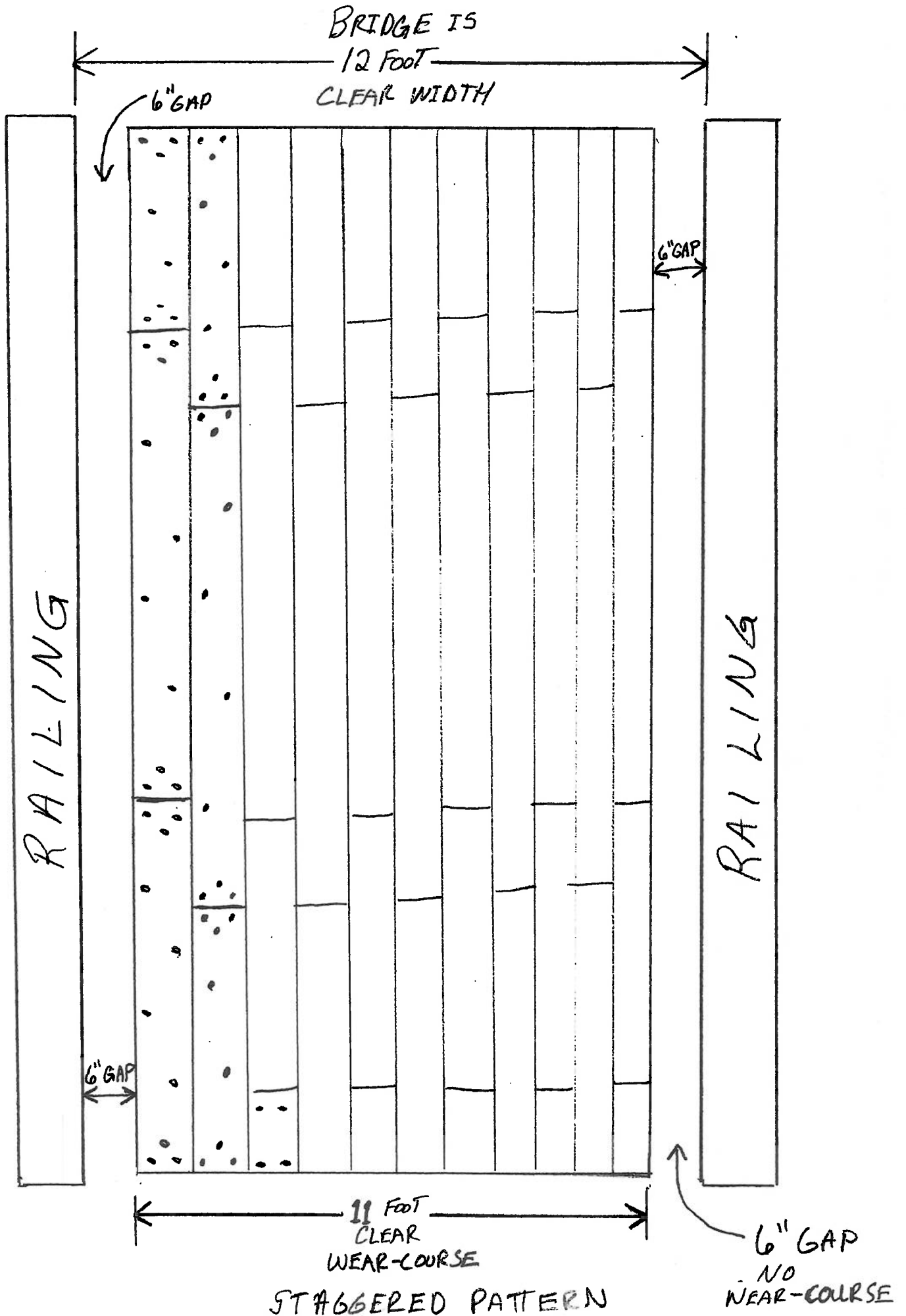
SNOWMOBILE TRAIL MAP DISCLAIMER

The trails depicted on this map traverse a variety of terrain and land ownership. Due to changes in the physical terrain and land ownership, snowmobile trail locations frequently change. We make an effort to keep these trails up to date however we cannot guarantee all changes have been represented on this map. If you discover any discrepancies please contact:

Oneida County Forestry Department
PO Box 400 - Courthouse
Rhinelander, WI 54501
(715) 365-1460

Updated 9/2013







Trail Bridge Inspection

Oneida County

Bridge Name

Tomahawk River (S)

Inspected By:

William S. Knaack Jr, P.E.
William S. Knaack Sr.

5/10/24

Prepared By

KBIS, LLC





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 just South USH 51 and CTH L, Oneida County.
45.63678, -89.70748

Bridge Condition

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

Pilings have CS2 minor decay at waterline, some brooming of the exterior growth, minor checks throughout.

There is wear on the upstream piles in the channel from debris build up

Bottom of the deck is solid sawn 3 inch by 8 inch transverse deck, good condition.

Middle spans are 4 girder glulams, the exterior girders are weathered on the exterior, CS2.

Piers are 3 piles, approx 12 inch diameter, pile caps (Cracks and Checks) with cross bracing. All CS2.

P1, and P2 have gaps on the middle piles the space should be filled to prevent damage to the pile cap.

Significant debris in channel along P5. This can be very serious if not removed.

The wearing surface is past any useful life or use.

Railing is in good shape, 15 LF of the top boards are loose at the joints on North railing.

West Bridge ahead is CS2 with minor damage, East CS1.

All 4 object markers have CS2 scratches.

Both approaches are CS1.

Length 231ft, Width 11 ft, 10 plus feet clearance on stream. Span 1 and Pier 1 are from West Abutment.

7 span, 6 piers. From East to West, 0, 27, 68, 110, 152, 178, 204, 231ft West Abutment

6 Piers (3 piles per bent, SP), 7 Spans, Timber Girder (8 Girders, 4 x 16 in approx. SS), S4, 5 and 6, 4 girder glulams, Southern Pine.



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

Bridge Inspection Report

Report Summary

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

Deck	# 6	
Wearing Surface		#2
Superstructure	# 6	
Substructure	# 7	
Channel	# 8	
Overall Condition	Fair	

Recommendations/Maintenance Items:

***Replace the wearing surface, it is not doing anything but having screws poking out, in 2024.

Cut the brush around the entire structure at the stumps. Bridges are like houses, they need to breathe. 10 ft buffer around the entire structure, toss away from the bridge.

Clean all the bearing areas, this will add longer life to your structure.

Wedge piles on P1 and P2.

Remove channel debris at P5.

Add rip rap to East side of the channel.

Signed By:

William S. Knaack Jr., P.E.

Bridge Inspection Report

Photo Observations



Looking West

Bridge Inspection Report

Photo Observations



CS2 Object Marker SW

Bridge Inspection Report

Photo Observations



CS2 Bridge Ahead sign, West End.

Bridge Inspection Report

Photo Observations



CS4 Wearing surface, typical.

Bridge Inspection Report

Photo Observations



CS4 wearing surface, typical.

Bridge Inspection Report

Photo Observations



East Bridge Ahead Sign.

Bridge Inspection Report

Photo Observations



Cut Brush.

Bridge Inspection Report

Photo Observations



Clean bearing areas.

Bridge Inspection Report

Photo Observations



P1 and P2 gap at middle pile, fill space to protect pile cap under load.

Bridge Inspection Report

Photo Observations



Pier along channel, typical.

Bridge Inspection Report

Photo Observations



Wear from Ice and Debris on upstream pile in channel, typical.

Bridge Inspection Report

Photo Observations



Glulam Span, typical.

Bridge Inspection Report

Photo Observations



Remove debris on P5, cause scour of the channel which can be catastrophic.

Bridge Inspection Report

Photo Observations



Add more riprap to protect the channel slope.