

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 04/22)

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 Iron 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 Peterson			Check Recipient Name (Name to Appear on Check) Eric Peterson		
Title Forest Administrator			Title Forest Administrator		
Address 607 3rd Ave N Suite 2			Address 607 3rd Ave N Suite 2		
City Hurley	State WI	ZIP Code 54534	City Hurley	State WI	ZIP Code 54534
Telephone Number (715) 561-2697		Email Address icfadmin@ironcountyforest.org			

Section 2: Project Information Required for all Projects

Project Title Freburg Creek Bridge Rehab					Current Funded Miles	New Miles (if applicable)
County Iron	Township 46 N	Range 1	Section 13	¼ ¼ SW	¼ NW	GPS Coordinates: Lat. 46.466989 Long. -90.446009

Project Description Summary

The Iron County Forestry Department proposes to use Force Account to replace the current 12' long x 14' wide snowmobile bridge that is over Freburg Creek (aka Spring Creek). This bridge is in poor condition and undersized as shown in the photos. The replacement 25,000 bridge will be 16' long and 12' wide with steel beams, treated timbers for decking and run surface and treated lumber railings. It will be placed on breaker rock so no abutments are needed. This bridge is on Iron County land.

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

Estimated Cost

Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$18,531.28		\$18,531.28
Leave Blank – DNR Use Only						

Applicant Certification

Printed Name of Authorized Official Eric J. Peterson	Official's Title 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

4/10/2023

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

Bridge Rehab/Replace New Bridge Reroute with new bridge

County Iron	Township 46 N	Range 1	Section 13	¼ ¼ SW	¼ NW	GPS Coordinates: Lat. 46.466989 Long. -90.446009
Water Body Name Freburg Creek (aka Spring Creek)			Bridge Name Freburg Creek Bridge		County Inventory Number 35	
Funded Trail Name or Number (SNARS if applicable) 7			Has this bridge site ever received development or rehabilitation funds in the past? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Year: _____ \$ _____			
Bridge is located on: <input type="checkbox"/> Private property <input checked="" type="checkbox"/> Public property			Old Bridge/Culvert Size 12' long x 14' wide New Bridge/Culvert Size 16' long x 12' wide			
Landowner Where Bridge is Located Iron County			Telephone Number (715) 561-2697		Length of Trail Use Agreement (5 year minimum) public land	
Current maximum load 12,000 lbs.		Age of Bridge 33 years		Bridge Material wood		
Proposed maximum load 25,000 lbs.						
Sponsoring Club Name Iron County Forest			Club Contact Eric Peterson		Telephone Number (715) 561-2697	
Do you have your trail bridges posted as to maximum load? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge? 25,000 lbs			
What is the weight of your puller & drag/grading equipment? 17,500 lbs						
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

The Iron County Forestry Department proposes to use Force Account to replace the current 12' long x 14' wide snowmobile bridge that is over Freburg Creek (AKA Spring Creek). This bridge is in poor condition and undersized as shown in the photos. The replacement 25,000 bridge will be 16' long and 12' wide with steel beams, treated timbers for decking and run surface and treated lumber railings. It will be placed on breaker rock so no abutments are needed. This bridge is on Iron County land.

Appendix A (continued)

Summarize Costs in Appropriate Categories:

Bridge Structure

	Quote 1	Quote 2
	<input checked="" type="radio"/> Steel <input type="radio"/> Wooden	<input checked="" type="radio"/> Steel <input type="radio"/> Wooden
Bridge Dimensions:	<u>16' long x 12' wide</u>	<u>16'x12'</u>
Bridge Manufacturer:	<u>Iron Co Forestry Force Account</u>	<u>Wheeler Lumber</u>
Design Weight Load	<u>25,000 lbs.</u>	<u>25,000 lbs.</u>
Cost of Structure:		
1. Engineering	\$ _____	\$ _____
2. Structure	\$ <u>7,948</u>	\$ <u>21,995</u>
Subtotal	\$ <u>7,948</u>	\$ <u>21,995</u>

	Quote 1	Quote 2
	<input type="radio"/> Contractor or <input checked="" type="radio"/> Sponsor Estimate	<input type="radio"/> Contractor or <input checked="" type="radio"/> Sponsor Estimate
Installation Costs:		
1. Engineering	\$ _____	\$ _____
2. Site Preparation	\$ _____	\$ _____
3. Abutments	\$ _____	\$ _____
4. Pilings/Piers	\$ _____	\$ _____
5. Approaches	\$ _____	\$ _____
6. Riprap	\$ <u>576</u>	\$ <u>576</u>
7. Labor	\$ <u>7,004</u>	\$ <u>2,000</u>
8. Equipment Rental	\$ <u>2,503</u>	\$ <u>3,000</u>
9. Culverts	\$ _____	\$ _____
10. H & H Study	\$ _____	\$ _____
11. Wetland Delineation	\$ _____	\$ _____
12. Other <u>Disposal of old bridge</u>	\$ <u>500</u>	\$ <u>500</u>
Subtotal	\$ <u>10,583</u>	\$ <u>6,076</u>
Total Cost	\$ <u>18,531</u>	\$ <u>28,071</u>

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

Entire Deck and Railing Projects Contractor Sponsor Club

Bridge Dimensions:	_____
Design Weight Load	_____ lbs.
1. Materials	\$ _____
2. Labor	\$ _____
Total	\$ _____

Recreation Grant Project Cost Estimate Worksheet

Form 8700-014 (R 07/14)

For use with Recreation Grant Application Forms

Project Name: Freburg Creek Bridge Rehab		Prepared By: Eric Peterson	Date: 03/29/2023
County: Iron	Project Applicant: Iron County Forestry Department	Landowner Name: Iron County Forest	<input checked="" type="radio"/> Public <input type="radio"/> Private

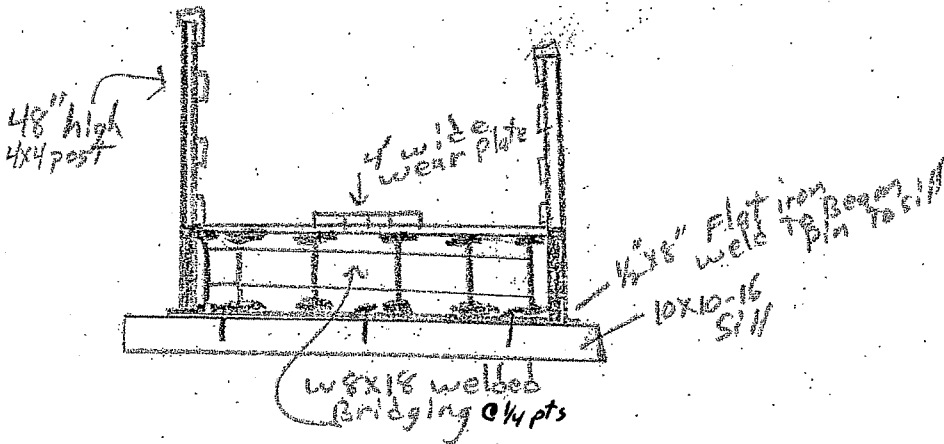
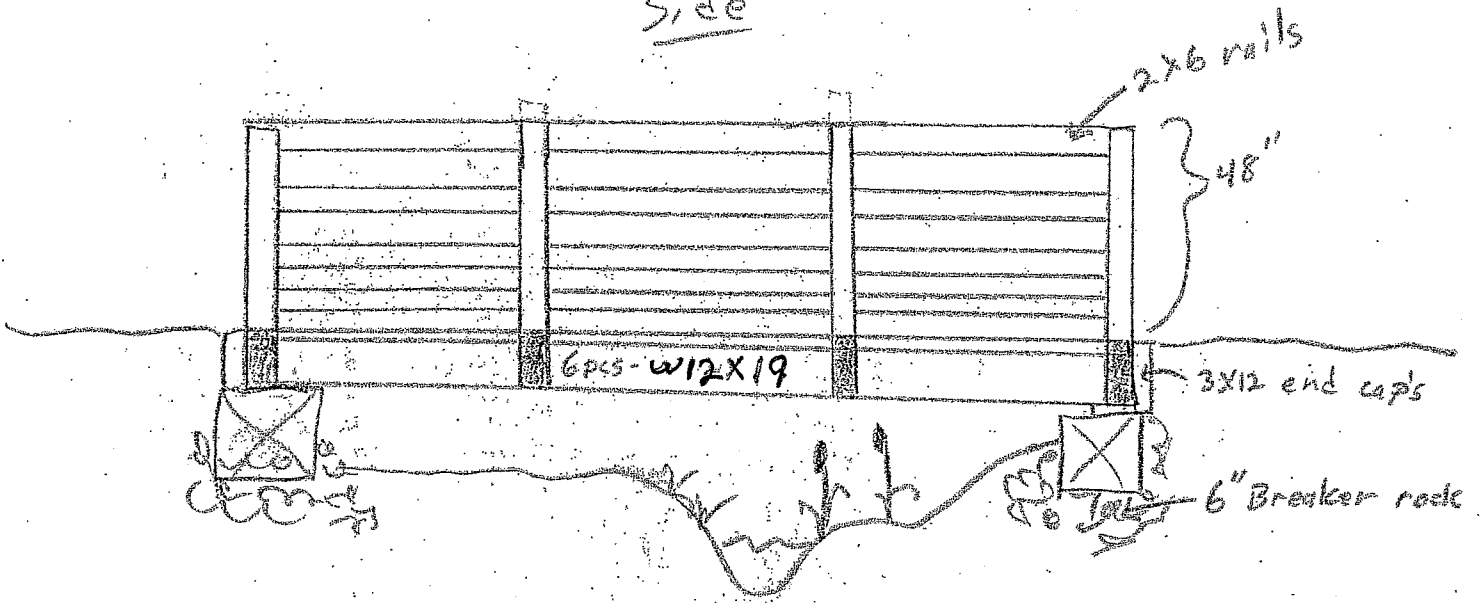
Indicate - (C) Contract , (F) Force Acct., (D) Donated

	DEVELOPMENT PROJECT ITEMS <i>List by individual item or break down by Use Areas (See Item List On Back Of This Form)</i>	Quantity	Unit of Measure	Component Costs	Estimated Total Item Cost
(F)	W12x19x20' steel beams	6	ea	\$370.00	\$2,220.00
(F)	W8x18x25' steel beams	2	ea	\$470.00	\$940.00
(F)	4"x4"x1/8x20' steel	1	ea	\$229.00	\$229.00
(F)	3/8"x3"x20' steel	3	ea	\$71.00	\$213.00
(F)	3"x12"x12' treated timbers	16	ea	\$113.00	\$1,808.00
(F)	3"x12"x16' treated timbers	7	ea	\$155.52	\$1,088.64
(F)	10"x10x16' treated timbers	2	ea	\$448.67	\$897.34
(F)	4"x4"x10' treated lumber	3	ea	\$24.00	\$72.00
(F)	2"x6"x16' treated lumber	10	ea	\$21.00	\$210.00
(F)	nails	1	box	\$75.00	\$75.00
(F)	6" spikes	1	box	\$195.00	\$195.00
(F)	breaker rock	36	yards	\$16.00	\$576.00
(F)	labor	178	hrs	\$39.35	\$7,004.30
(F)	welder	25	hrs	\$4.00	\$100.00
(F)	dumptruck	16	hrs	\$60.00	\$960.00
(F)	equipment trailer	10	hrs	\$25.00	\$250.00
(F)	excavator	8	hrs	\$52.00	\$416.00
(F)	loader	3	hrs	\$43.00	\$129.00
(F)	skidsteer	6	hrs	\$53.00	\$318.00
(F)	generator/welder	5	hrs	\$18.00	\$90.00
(F)	pickup	15	hrs	\$16.00	\$240.00
(F)	disposal of old bridge	1	ea	\$500.00	\$500.00
TOTALS					\$18,531.28

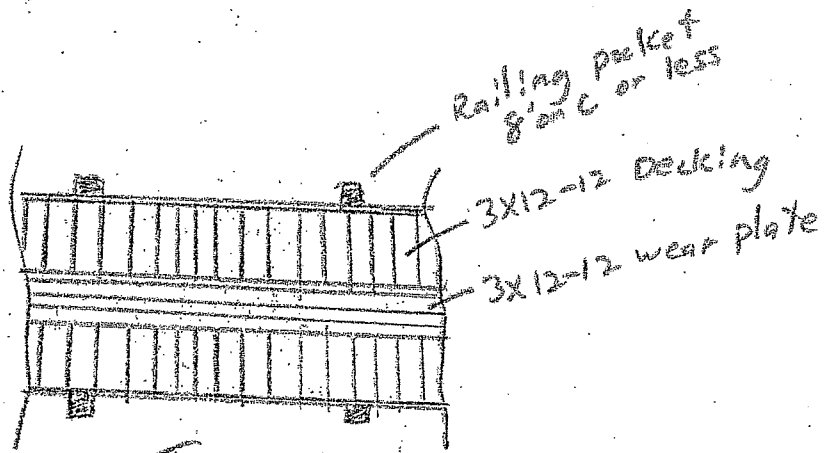
NOTE: For acquisition projects, complete the Acquisition Project Cost Estimate Section

12'x20' - 12 1/2 Ton
11-21-19 TK

Side



End



Top

JOB # 1905

5 BRIDGE DESIGN ALL RECREATIONAL W/ LL @ $12\frac{1}{2}$ TON = 25^k

ALL SIMPLE SPAN 12' WIDE w/ ADEQUATE HANDRAILING WOOD DECK & WEAR PLATE.

SIZES RANGE FROM 20' TO 40' (20, 25, 30, 35, 40)

ADEQUATE WELD IN FIELD BRACING @ $\frac{1}{4}$ POINTS ALONG SPAN BETWEEN EACH OF 6 MEMBERS

APPROX SPACING $\frac{12'}{5 \text{ SPAN}} = 2.4' \approx 29" \pm$

BRIDGING TO BE PIECES OF SAME SIZE BEAM MEMBERS

IMPACT LOADING @ 25% OF ALL WEIGHT LL+DL.

SNOW LOAD @ 60 PSF

BRIDGE DL @ 35 PSF

MAX. LIVE LOAD 25^k (WORST CASE SINGLE AXIAL @ $\frac{1}{2}$) w/ 1.33 INCREASE FWD UNITY 1.0

CALCULATE FULL LOAD MOMENT THEN DIVIDE BETWEEN 5 MEMBERS. $\frac{1}{2}$ OUTSIDE MEMBERS FOR HANDRAILING

@ 20' $M = 12.5^k(10') + \frac{0.095(12)(20')^2}{8} = 182^k\text{-ft} / 5 = 36.4$

$\frac{6}{5} = 1.2$

@ 25' $M = 12.5^k(12.5') + \frac{1.14(25')^2}{8} = 245.3^k\text{-ft} / 5 = 49.1$

20% NOT INCLUDED

@ 30' $M = 12.5^k(15.0') + \frac{1.14(30')^2}{8} = 315.75^k\text{-ft} / 5 = 63.2$

@ 35' $M = 12.5^k(17.5') + \frac{1.14(35')^2}{8} = 393.3^k\text{-ft} / 5 = 78.7$

@ 40' $M = 12.5^k(20.0') + \frac{1.14(40')^2}{8} = 478^k\text{-ft} / 5 = 95.6$

$S_x = \frac{36.4(12)}{22} = 19.9 < 21.3$ W 12x19 6@20'

$S_x = \frac{49.1(12)}{22} = 26.8 < 33.4$ W 12x24 6@25'

$S_x = \frac{63.2(12)}{22} = 34.5 < 38.6$ W 12x30 6@30'

$S_x = \frac{78.7(12)}{22} = 42.9 < 45.6$ W 12x35 6@35'

$S_x = \frac{95.6(12)}{22} = 52.1 < 58.1$ W 12x45 or W 16x36 6@40'
56.5



STRESS INCREASE DUE TO L.L. (FULL LENGTH) @ 1.33 ALLOWS 33% IMPACT

PROJECT: Trail 7 & 12 Snowmobile Bridges
Hurley, Wisconsin
Iron County



Wheeler Lumber LLC
Jake Silkey
jsilkey@wheeler1892.com
262.229.4068

BID DATE:

Recreational Timber Panel-Lam Bridge – Trail 7

16' single span x 12' clear roadway.
Superstructure is designed to a 60# pedestrian load and a 25,000 lbs. (H12.5) vehicle loading.
Longitudinal dowel laminated timber deck panels.
42" high horizontal pedestrian railing. Includes 12"x12" timber sills & 3"x12" timber wear course.

Lump Sum Total \$21,995.00

Recreational Timber Panel-Lam Bridge – Trail 12

30' single span x 12' clear roadway.
Superstructure is designed to a 60# pedestrian load and a 25,000 lbs. (H12.5) vehicle loading.
Longitudinal dowel laminated timber deck panels.
42" high horizontal pedestrian railing. Includes 12"x12" timber sills & 3"x12" timber wear course.

Lump Sum Total \$47,315.00

Note:

Price does not include the cost of unloading and installation.
The method and sequence of erection shall be the responsibility of others.
All timber to be Douglas Fir, pressure treated with Copper Naphthenate (QNAP) in Type A Hydrocarbon Solvent in accordance with AWPA P-36 and HSA-14 to meet AWPA UC4B & UC4C.
Includes associated hardware. Hardware to be hot-dipped galvanized or coated to meet ICC AC-257.
Wheeler will include bridge superstructure plans sealed by a Professional Engineer registered in the state of the bridge location. Wheeler will not assume responsibility as Engineer of Record for the project.



111 Willow Street
Colfax, WI 54730
(715) 962-2800
FAX: (715) 962-2801

PROPOSAL

April 4, 2023

To: Iron County Snowmobile Trail Administrator

Re: Snowmobile Bridge Budget

- 1 - **16' x 12' (clear width) steel truss bridge**
- Design Standards: **AASHTO**
 - Diagonals per Panel: **1**
 - Clear width: **Inside face structural elements at deck level**
 - End Vertical: **Square**
 - Bearings: **Equal Elevations**
 - Steel Grade: **A588/A847 (Unpainted self-weathering)**
 - Deck: **#1 Southern Yellow Pine (.40 MCA)**
 - Safety Rails: **Horizontal (4" opening)**
 - Installation: **Steel piling abutments**
 - Loads: **85 psf live load - 35 psf wind load – 25,000 lbs. vehicle load**
 - FOB: **Iron County, WI**
 - Engineered Drawings State Seal: **Wisconsin**

Price-----		\$41,000
• Structure (Steel Truss)	\$13,000	
• Engineering	\$4,000	
• Soil Testing	\$0	
• Site Prep	\$5,000	
• Abutments	\$12,000	
• Labor	\$5,000	
• Rip Rap	\$2,000	

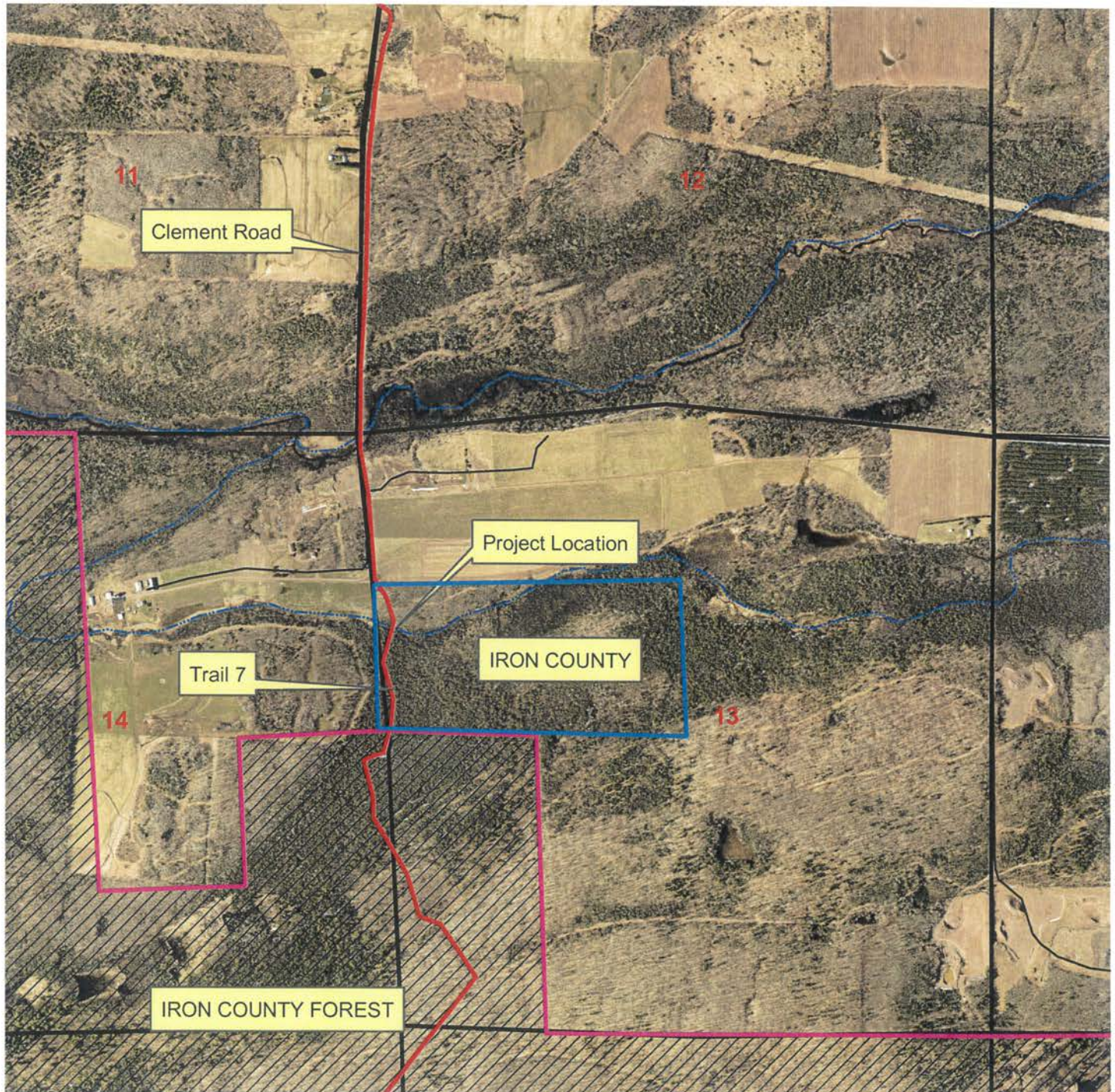
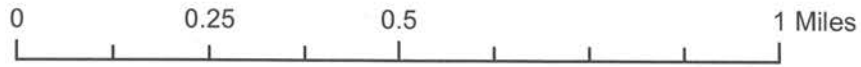
*****This price is for budgetary purposes only*****

Please call with any questions.

Thank you,

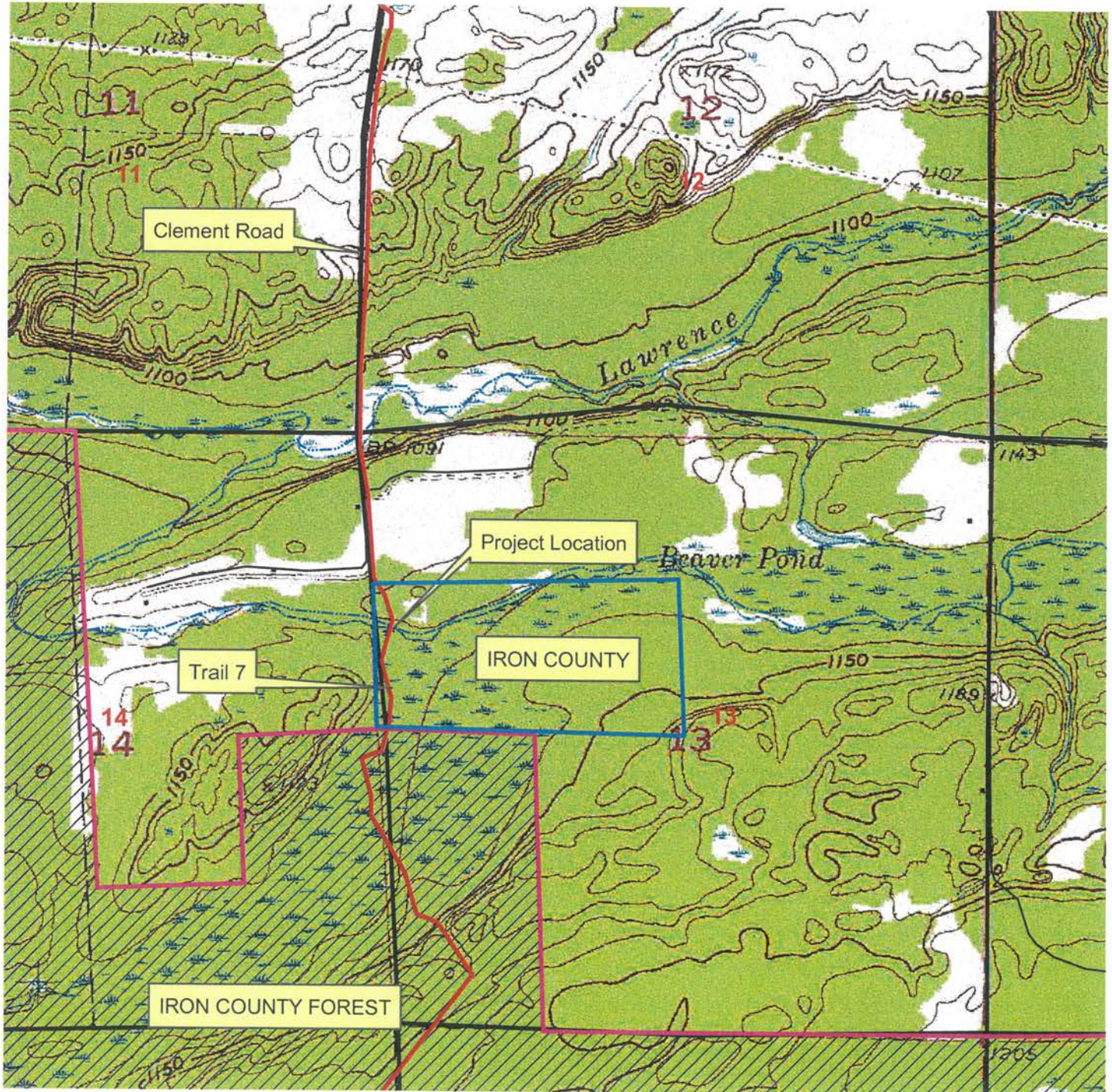
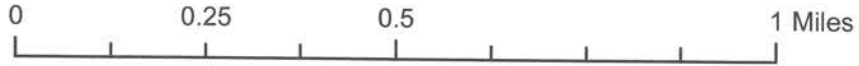
Kory S. Weathers

Iron County Forestry
"Trail 7 Freburg Creek Bridge"
SW NW, Sec. 13, T46N, R1W
Town of Saxon, Iron County, Wisconsin



Map By: Iron County Forestry

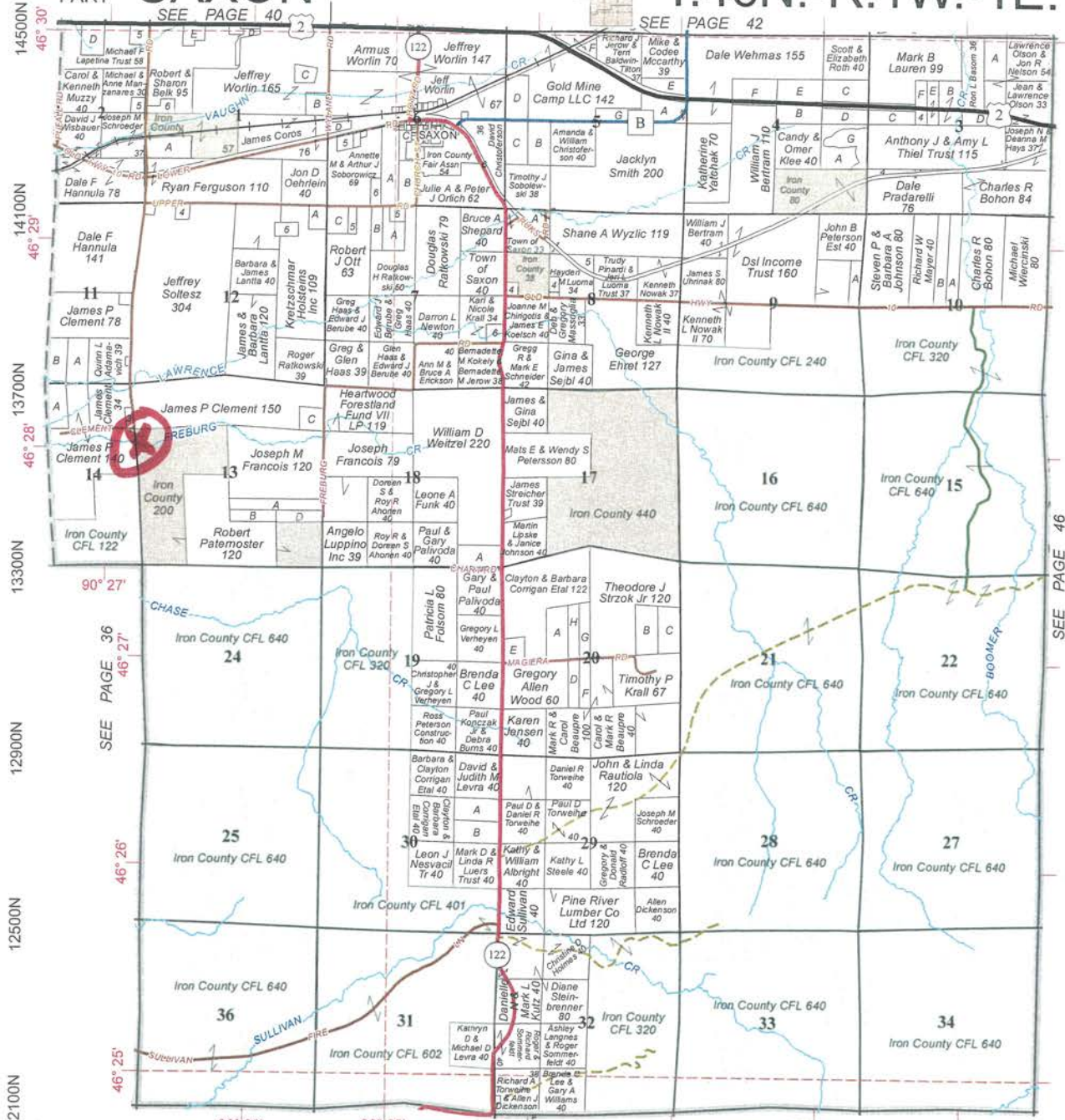
Iron County Forestry
"Trail 7 Freburg Creek Bridge"
SW NW, Sec. 13, T46N, R1W
Town of Saxon, Iron County, Wisconsin



Map By: Iron County Forestry

SOUTH PART SAXON

T.46N.-R.1W.-1E.

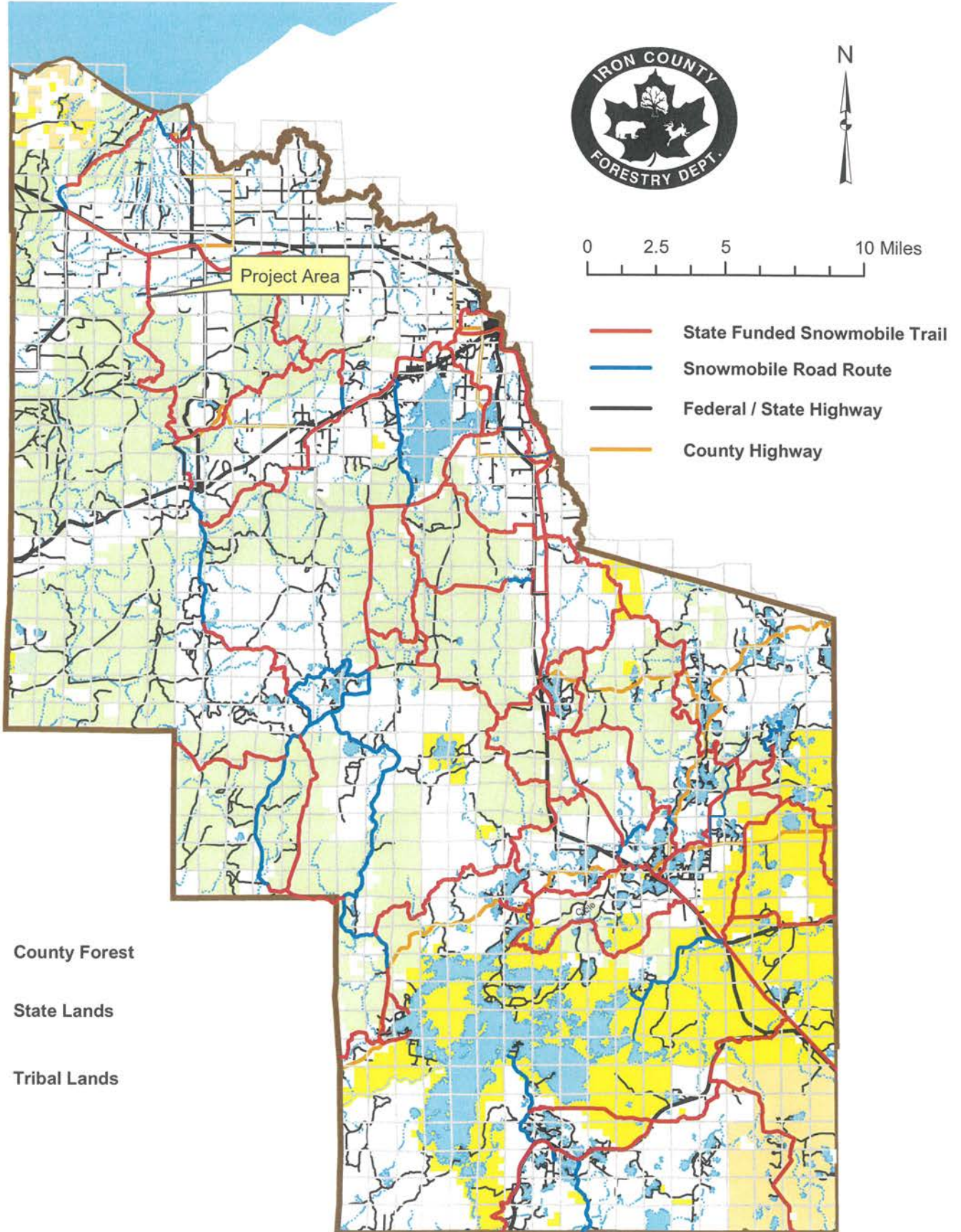


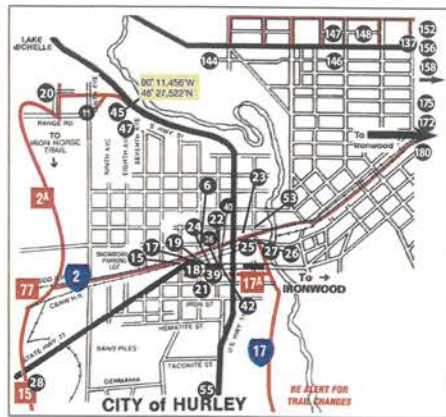
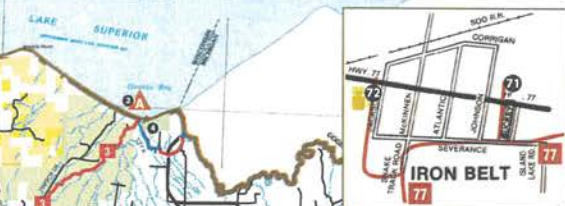
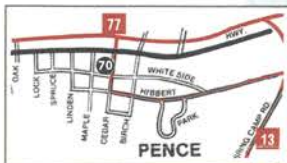
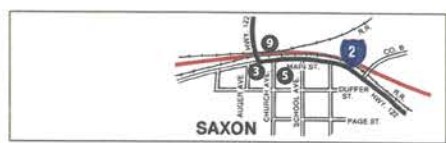
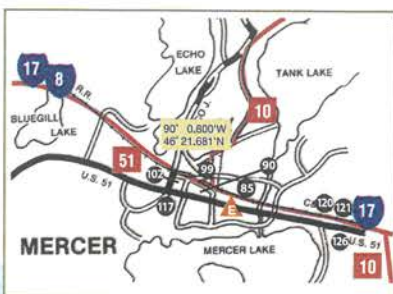
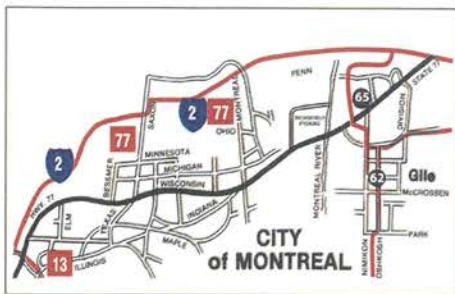
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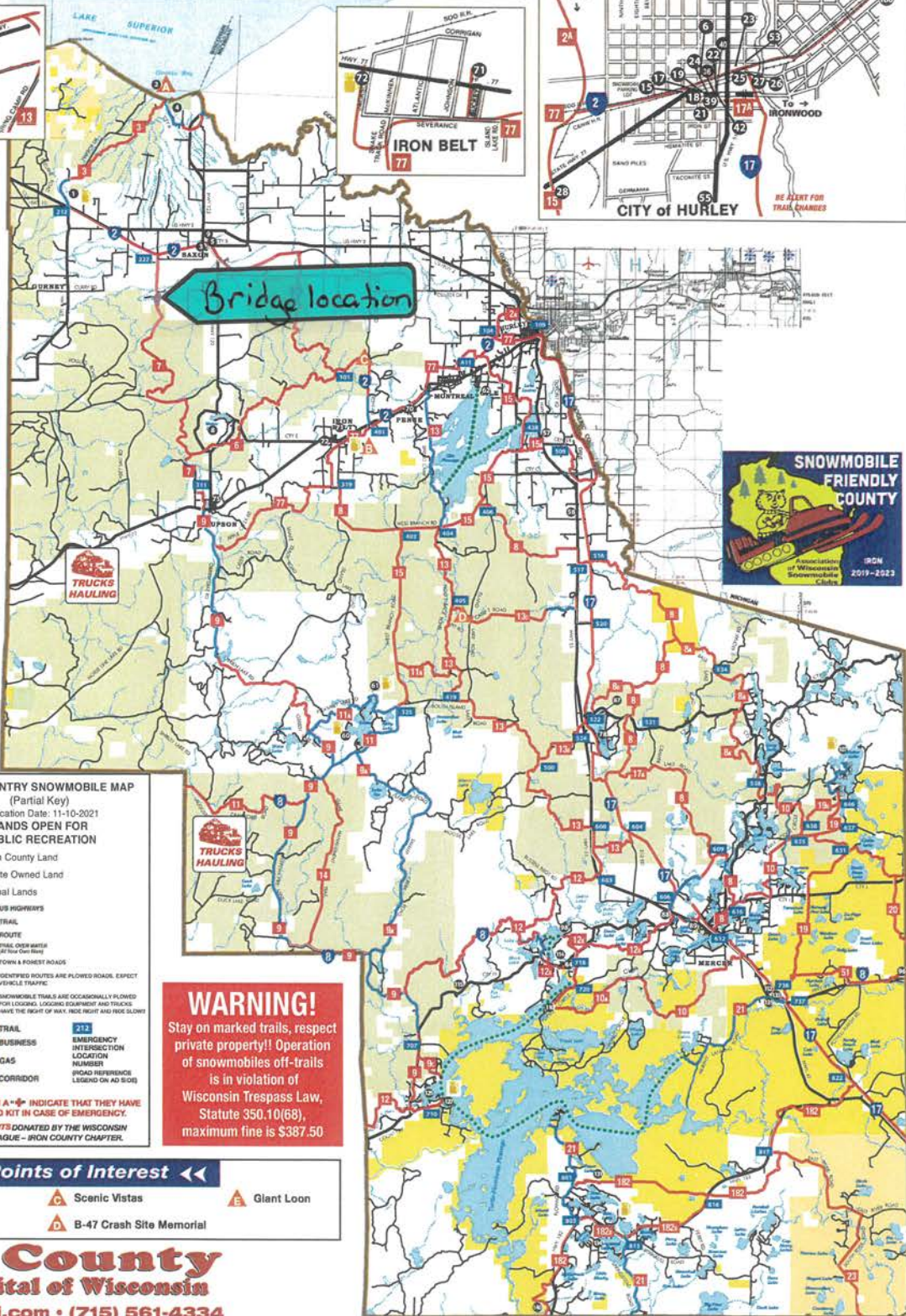
Iron County, WI

Iron County Forestry "Trail 7 Freburg Creek Bridge" Iron County Snomobile System





EXPECT VEHICLE TRAFFIC ON ALL ROUTES.
 Designated trails are occasionally plowed for logging activities, logging equipment and trucks have the Right-of-Way!! Ride right and ride safe on ALL plowed roadways!



IRON COUNTY SNOWMOBILE MAP (Partial Key)
 Publication Date: 11-10-2021
LANDS OPEN FOR PUBLIC RECREATION
 Iron County Land
 State Owned Land
 Tribal Lands

US HIGHWAYS
 TRIAL
 ROUTE
 TRAIL OVER WATER
 TOWN & FOREST ROADS

IDENTIFIED ROUTES ARE PLOWED ROADS. EXPECT VEHICLE TRAFFIC.
 SNOWMOBILE TRAILS ARE OCCASIONALLY PLOWED FOR LOGGING. LOGGING EQUIPMENT AND TRUCKS HAVE THE RIGHT OF WAY. RIDE RIGHT AND RIDE SLOW!

TRAIL
 BUSINESS
 GAS
 CORRIDOR

EMERGENCY INTERSECTION LOCATION
 ROAD NUMBER
 ROAD REFERENCE LEGEND ON AD SIDE

THE ADS WITH A+ INDICATE THAT THEY HAVE A FIRST AID KIT IN CASE OF EMERGENCY.
 FIRST AID KITS DONATED BY THE WISCONSIN TAVERN LEAGUE - IRON COUNTY CHAPTER.

WARNING!
 Stay on marked trails, respect private property!! Operation of snowmobiles off-trails is in violation of Wisconsin Trespass Law, Statute 350.10(68), maximum fine is \$387.50

Scenic Points of Interest

- A Saxon Harbor and Lake Superior
- B Plummer Mine
- C Scenic Vistas
- D B-47 Crash Site Memorial
- E Giant Loon

Iron County
Snow Capital of Wisconsin
www.hurleywi.com • (715) 561-4334
www.mercercc.com • (715) 476-2389

WARNING
 SNOWMOBILE SPEED LIMIT ON PLOWED TOWN ROADS
25MPH

1. Please respect private property.
2. Use extreme caution on lakes and streams.
3. Obey all state laws and local ordinances.
4. Do not operate snowmobiles on state highways or county roads.
5. Snowmobile routes are roads so designated by local ordinance. Do not use unless posted as a route.
6. Iron County, Iron County Snowmobile Council, White Thunder Riders Snowmobile Club, Mercer Snow-Sports Snowmobile Club, and members and affiliates thereof assume no liability as to trails, machines or individuals.
7. This map is intended as a guide only. The Snowmobile Council assumes no liability relative to accuracy of trail locations and routes.

Non-Resident Snowmobile Stickers Required



Prepared and Distributed by:
IRON COUNTY RECREATIONAL COUNCIL
 PO BOX 294 HURLEY, WI 54534
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Map courtesy of Iron County Forestry Department
 Printed by Hahn Printing Inc., Eagle River, WI









