State of Wisconsin	#28 Iron Co Four Mile	Creek Bridge Motorized Recreation Grant Appl	ication
Department of Natur dnr.wi.gov	al Resources	For: (choose all that apply)	form 8700-159 (R 04/22)
		ATV/UTV Trail Aid	Page 1 of 5

I Snowmobile Trail Aid Snowmobile Trail Aid

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 fur					unds. The	ey may	DNR Use Only			
be submitted for consideration of traditional ATV, UTV, Snowmobil Stewardship funding. Submit one copy of all forms and attachment necessary attachments. Send applications to your <u>Community Ser</u>						e 2 for	Category		Number	
Section 1: Applicant Information	on			1.18 2.18	el. com single	.魚町1.510			A REAL PROPERTY	
Applicant / Organization Name					Check Re	cipient:	Individual other than a	authorized in	dividual to act	
Iron County Forestry Departme	ent				on behalf	of the ap	in line at		e as applicant.	
Individual Authorized to Act on Be	half of App	licant p	per Reso	olution	Check Re	cipient	Name (Name to App			
Eric Peterson				1	Eric Pete					
Title					Title					
Forest Administrator					Forest Administrator					
Address					Address					
607 3rd Ave N Suite 2					607 3rd Ave N Suite 2					
City		State	ZIP Cod	le	City			State	ZIP Code	
Hurley		WI	545	34	Hurley WI 54					
Telephone Number	E	Email A	ddress						0.001	
(715) 561-2697	i	cfadm	in@iro	ncounty	vforest.or	g				
Section 2: Project Information	Required	for all	Project	s	T, Mas	T ANK-		- Caller - Fu	a contraction and the state	
Project Title						Currer	t Funded Miles N	lew Miles (if	applicable)	
4 Mile Creek Bridge Rehab										
County	Township	Rang	e • E	Section	1/4 1/4	1/4	GPS Coordinates: Lat. 46.144769			
Iron	42 N	2	OW	4	NE	SE	Long90.24348	31		

Project Description Summary

Due Date: April 15

The Iron County Forestry Department proposes to use Force Account to replace the current 12' wide x 20' long snowmobile bridge that is over 4 Mile Creek. This bridge is in poor condition and undersized. Decking also broke off on one side during grooming operations late this winter. The replacement 25,000 bridge will be 12' wide x 30' long with steel beams, treated timbers for decking and run surface and treated lumber railings. It will be placed on native material so no abutments are needed. This bridge is on Iron County Forest land. Additional no snow photos will be submitted at a later date.

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

Estimated Co	st							
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost		
				\$28,030.00		\$28,030.00		
			Leave Blank - DNF	R Use Only				
1.10			1.1.1	Q: 9				
Applicant Cer	tification	The second second	THE REAL PROPERTY OF	Stor wetting Themes				
Printed Name of	of Authorized Offic	ial	Of	Official's Title				
Eric J. Peterso	on		prest Administrato	r				
As the applican	t's authorized offic	cial, I certify that, to	the best of my know	vledge, the informati	on in this applicat $\frac{4}{10} = 202$	ion is true and correct.		

Signature of Authorized Official

Date Prepared

Iron County Forestry Department

Motorized Recreation Grant Application

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Appendix A – Required for	r Bridge I	Rehal	o/Repl	ace, N	ew, or	Reroute	e with New Br	ridge	
X Bridge Rehab/Replace	Nev	w Brid	ge		eroute w	vith new	bridge		
County	Township	Range	ΘE	Section	1/4 1/4	1/4	GPS Coordinate		
Iron	42 N	2	OW	4	NE	SE	Long90.243		
Water Body Name				Bric	lge Name	3		County Invent	ory Number
4 Mile Creek				4 N	file Cree	ek Bridg	e	Not in invent	orv
Funded Trail Name or Number (SN	ARS if app	licable	1	Has	this brid	ge site ev	ver received deve	elopment or rehabili	
12				in th	ne past?	O Yes	\sim	ear: \$	
Bridge is located on: O Private	property			Old	Bridge/C	ulvert Siz	ze 12' wide x 2	0' long	
	property			Nev	v Bridge/	Culvert S	ize 12' wide x 3	0' long	
Landowner Where Bridge is Locate	ed			Tele	ephone N	lumber	Length of T	rail Use Agreement	(5 year
Iron County Forest					5) 561-2	2697	public land	£	minimum)
A24 NO. 16 NO. 0	Contractor and the second	lbs.	Age of	Bridge	Bridg	e Materia	l		
	5,000	lbs.	?		wood	1			
Sponsoring Club Name				Club C	ontact			Telephone Numbe	
Iron County Forest					eterson		(715) 561-		
Do you have your trail bridges post		aximum Yes (e		What i groom	What is the maximum load of the other bridges on the system if groomed with this bridge?				
What is the weight of your puller &			-	25,00	25,000 lbs				
17,500 lbs		5 - 1							
What other recreational trail uses a	re 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 O No Is a permit needed? (Please provide any written correspondence from WMS.)									
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' wide x 20' long snowmobile bridge that is over 4 Mile Creek. This bridge is in poor condition and undersized. Decking also broke off on one side during grooming operations late this winter. The replacement 25,000 bridge will be 12' wide x 30' long with steel beams, treated timbers for decking and run surface and treated lumber railings. It will be placed on native material so no abutments are needed. This bridge is on Iron County Forest land. Additional no snow photos will be submitted at a later date.

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Appendix A (continued)		
Summarize Costs in Appropriate Categoria	ories:	
	Bridge Structure	
	Quote 1	Quote 2
	Steel	Steel O Wooden
Bridge Dimensions:	12' wide x 30' long	12' wide x 30' long
Bridge Manufacturer: Iron Co Fo	prestry Force Account	Wheeler Lumber
Design Weight Load	125,000 lbs.	25,000 lbs.
Cost of Structure: 1. Engineering	\$	\$
2. Structure	\$ <u>18,727</u>	\$ 47,315
Subtotal	\$ <u>18,727</u>	\$ 47,315
	Quote 1	Quote 2
0	Contractor or Sponsor	○ Contractor or ● Sponsor
Installation Costs:	Estimate	Estimate
1. Engineering	\$	\$
2. Site Preparation	\$	\$
3. Abutments	\$	\$
4. Pilings/Piers	\$	\$
5. Approaches	\$	\$
6. Riprap	\$	\$
7. Labor	\$ 4,683	\$ 3,200
8. Equipment Rental	\$ 3,420	\$ 3,000
9. Culverts	\$	\$
10. H & H Study	\$	•
11. Wetland Delineation	\$	\$ \$
12. Other Disposal of old bridge	\$ 1,200	\$ 1,200
Subtota	I \$ <u>9,303</u>	\$ 7,400
Total Cos	t \$ <u>28,030</u>	\$ 54,715
For the application grant, yo	u must take the lowes	

Entire Deck and Railing Projects			O Contractor	○ Sponsor	() Club
Brid	dge Dimensions:	8			
De	sign Weight Load		lbs.		
1.	Materials	\$			
2.	Labor	\$			
	Total	\$			

Project Name:		Prepared By:	Date
4 Mile Creek E	Bridge Rehab	Eric Peterson	04/10/2023
County	Project Applicant:	Landowner Name	Public
Iron County Forestry Department		Iron County Forest	O Private

Γ	Indicate - (C) Contract , (F) Force Acct., (D) Donated				
\downarrow	DEVELOPMENT PROJECT ITEMS List by individual item or break down by Use Areas (See Item List On Back Of This Form)	Quantity	Unit of Measure	Component Costs	Estimated Total Item Cost
(F)	W12x30x30' steel beams	6	ea	\$796.00	\$4,776.00
(F)	W8x18x30' steel beams	2	ea	\$554.50	\$1,109.00
(F)	4"x4"x1/8x20' steel	1	ea	\$208.00	\$208.00
(F)	3/8"x3"x20' steel	5	ea	\$65.80	\$329.00
(F)	3"x12"x12' treated timbers	44	ea	\$140.27	\$6,171.88
(F)	3"x12"x16' treated timbers	7	ea	\$155.52	\$1,088.64
(F)	10"x10x16' treated timbers	4	ea	\$474.00	\$1,896.00
(F)	4"x4"x10' treated lumber	5	ea	\$18.00	\$90.00
(F)	2"x6"x16' treated lumber	22	ea	\$17.00	\$374.00
(F)	nails	1	box	\$85.00	\$85.00
(F)	6" spikes	1	box	\$200.00	\$200.00
(F)	dozer	4	hrs	\$53.00	\$212.00
(F)	labor	180	hrs	\$39.35	\$7,083.00
(F)	welder	20	hrs	\$4.00	\$80.00
(F)	dumptruck	28	hrs	\$60.00	\$1,680.00
(F)	equipment trailer	28	hrs	\$25.00	\$700.00
(F)	excavator	7	hrs	\$52.00	\$364.00
(F)	loader	1	hrs	\$43.00	\$43.00
(F)	pole trailer	2	hrs	\$26.00	\$52.00
(F)	generator/welder	4	hrs	\$18.00	\$72.00
(F)	pickup	7	hrs	\$16.00	\$112.00
(F)	disposal of old bridge	1	ea	\$1,200.00	\$1,200.00
(F)	tracked gator	2	hrs	\$19.00	\$38.00
(F)	ATV trailer	4	hrs	\$15.00	\$60.00
(F)	chainsaw	1	hrs	\$6.50	\$6.50
				TOTAL\$	\$28,030.02

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

12/2 Th Th 17, X 30' 4-11-19 48/1 4×4 pockets Sill on breaker rock Side View

12×30 125 Ton 4-11-19 TK 2×6 vails 48" Railing 1/2×8" plate-weld To Beams 10×10-16' S:// 6pcs - W12x30-30' WBX 18 Bridging empts End view 4xy rail pockets less 3×12-12 Decking 3×12-12 wear plat 3/8×3 flat tron Deck retainer View FOP

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* . .

JOB # 1905 5 BRINGE DESIGN AL RECREATIONAL W/LL @ 122 TON = 25" ALL SIMPLE SPAN 12 WIDE of ADECUME HANDADING WOUD NOTE & WEAR PLATE Sizes namely FROM 20' TO 40' (20, 25, 30, 35, 40) ADTENTE NOW IN FIELD BRUSSING (4 POINTS AZONG SRAW BETWEEN EACH OF G MEMBERS APPRIX SPACIFIC 12' = 2.4' ~ 29"+ BRINGING TO BE PIECES OF 5 SPACE SAME SIEVE BEAM MEMBE SAME SIEC BUAM IMPACT LUMING @ 25% OF ALL WEIGHT LL+OL. swar Lam C 60 PSF BRING DL C 35 PSF MAX. LIVE LOND 25" (WONST CASE SINGLE AXIAL (E) W/ 1.33 IN CAREKE FIND UNITY 1.6 2 OUTSIDE CALCULATE FUL LLAD MUTERT THAN DIVINE BETWEEN 5 MEMBERS. MENBOY FAR Hononth @ 20' M = 12.5" (10') + 0.095(12)(20') = 182 -1 /5 = 34.4 5= 1.2 $(25' M = 12.5(12.5') + \frac{1.14(25)^2}{9} = \frac{245.3^{k-1}}{5} = \frac{49.1}{5}$ 20% Nor IN CLUDED P_{36}^{*} M = 12.5 (15.6) + 1.14 (30)² = 315.75 - 1/5 = 6.3.2 @ 35' M= 12.5" (17.5') + 1.14 (35)2 = 393.3" 1/5 = 78.7 @ 46' M= 12.5 (20.0') + 1.14 (40')2 = 478 ** 15 = 95.6 $S_{x} = \frac{36.4(12)}{22} = 19.9 < 21.3$ w 12×19 6020' $\frac{S_{x}}{25} = \frac{49.1112}{22} = 24.8 < 33.4 \quad W \quad 12 \times 24 \quad 6(25)$ BUCHKO $S_{x} = \frac{63.2(12)}{22} = 34.5 \times 38.6 \quad W(2\times30) \quad (C.2.30)$ Sr = 7.8,7(12) = 42.9 < 45.6 w 12x 35 60 35' 11/19 5, = <u>95.6(12)</u> = 52.1 < 58.1 W12×45 on W16×36 6040' STRESS INCREASE DU TO L.L. (FULLY LEADED) (0 1.33 ALLIUS 33% IMPACT

QUOTATION

4/5/2023

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 **30' 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

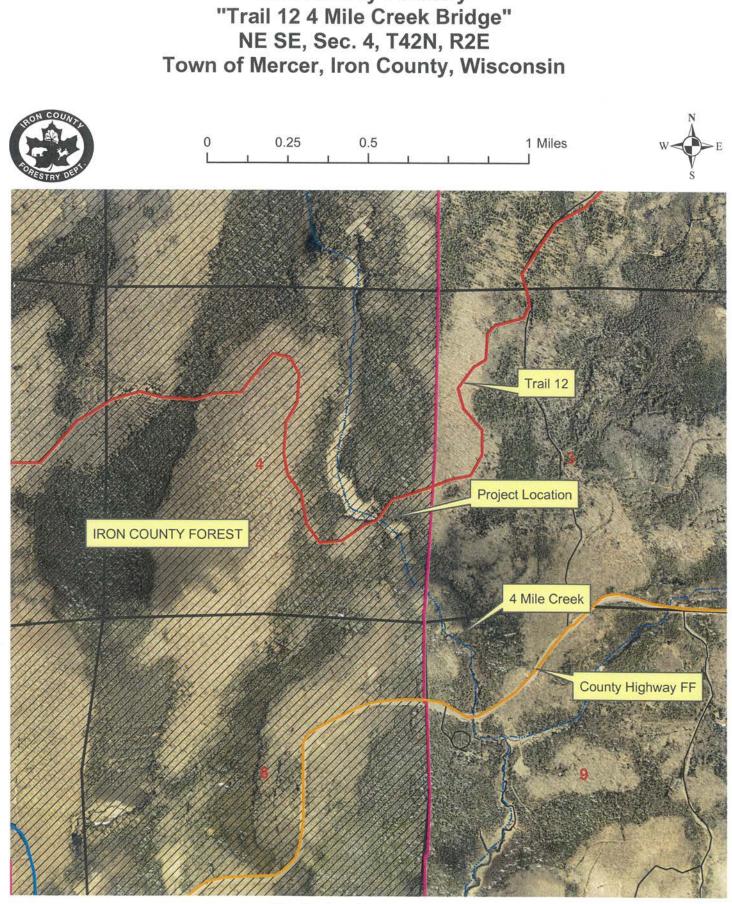
Price		\$53,000
•	Structure (Steel Truss)	\$25,000
	Engineering	\$4,000
	Soil Testing	\$0
	Site Prep	\$5,000
	Abutments	\$12,000
	Labor	\$5,000
•	Rip Rap	\$2,000

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

Please call with any questions.

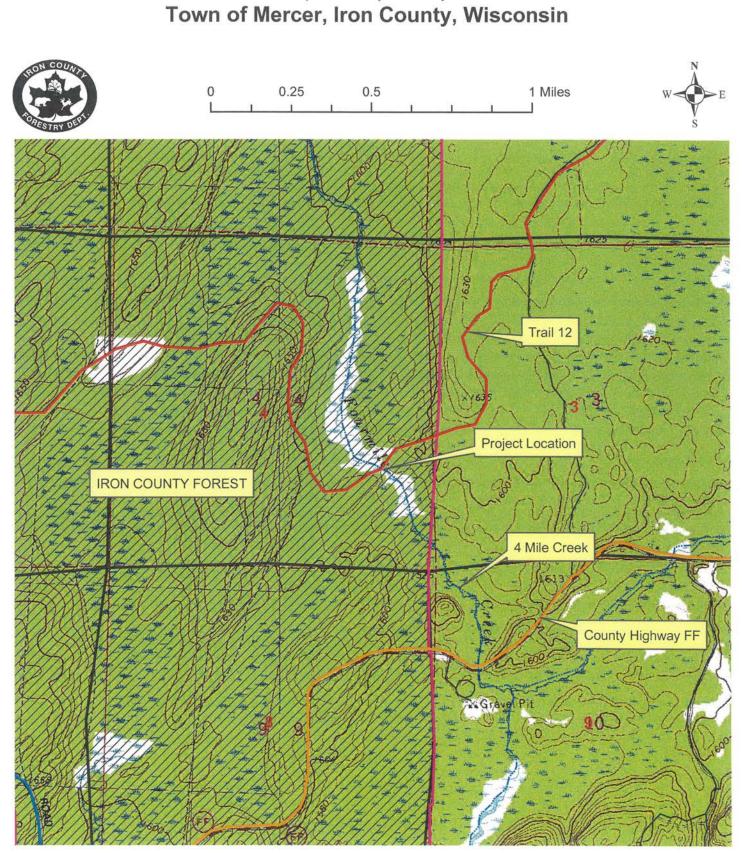
Thank you,

Kory S. Weathers



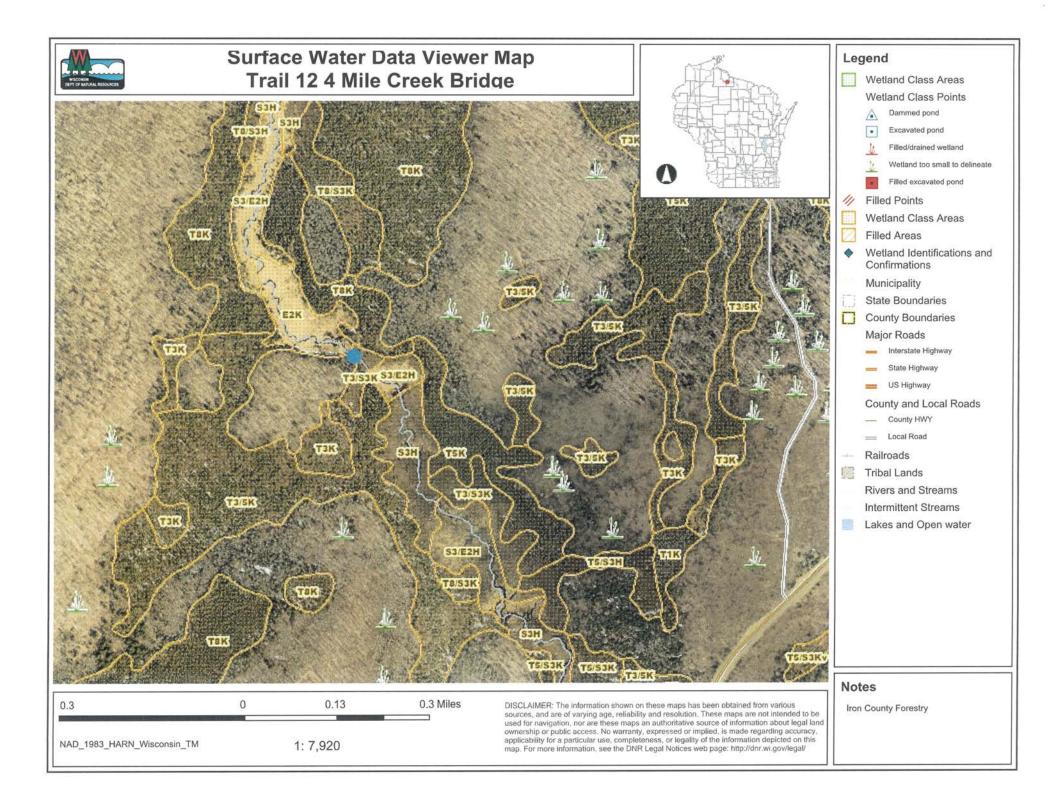
Iron County Forestry

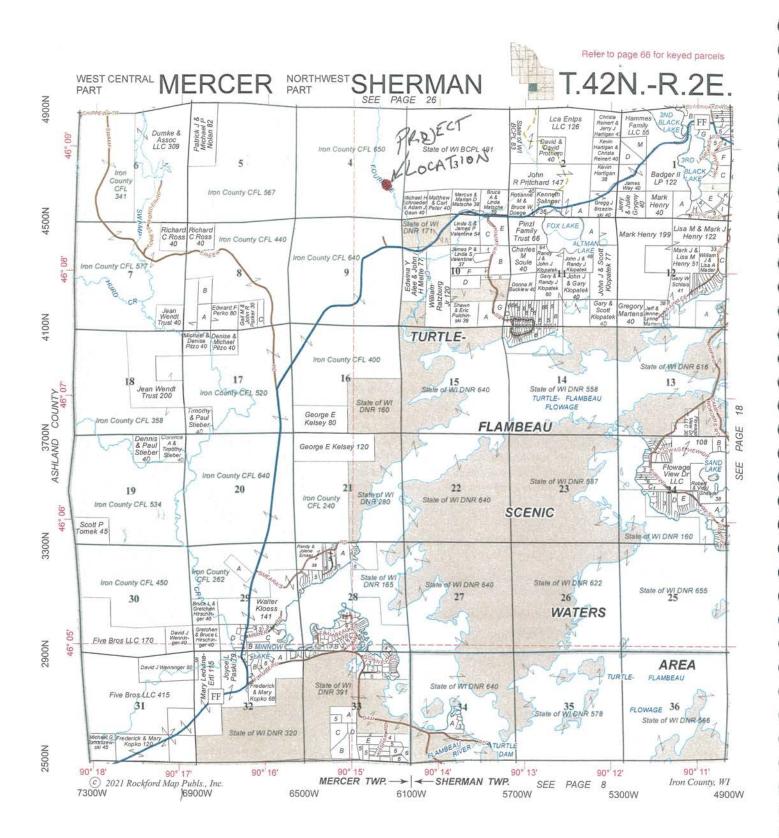
Map By: Iron County Forestry



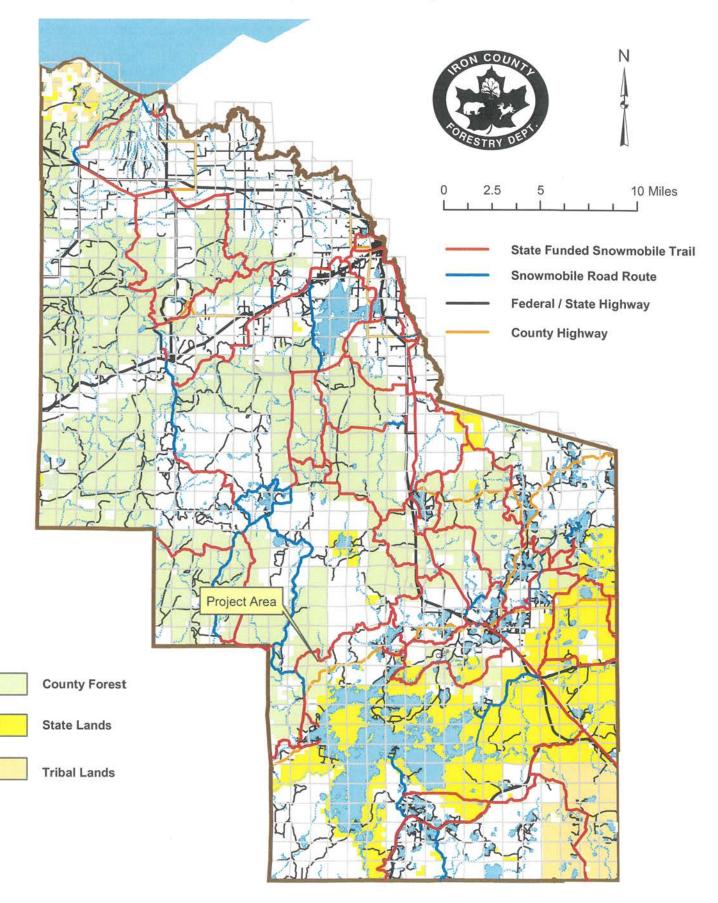
Iron County Forestry "Trail 12 4 Mile Creek Bridge" NE SE, Sec. 4, T42N, R2E

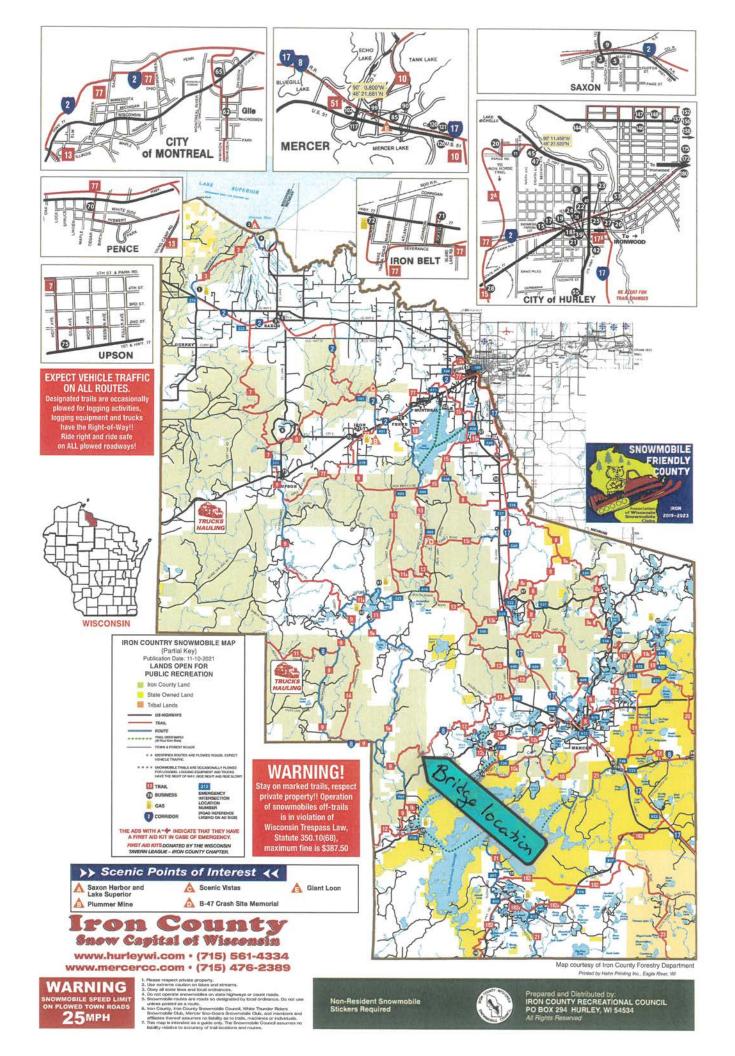
Map By: Iron County Forestry





Iron County Forestry "Trail 12 4 Mile Creek Bridge" Iron County Snomobile System







East approach





Bridge from upstream



Bridge



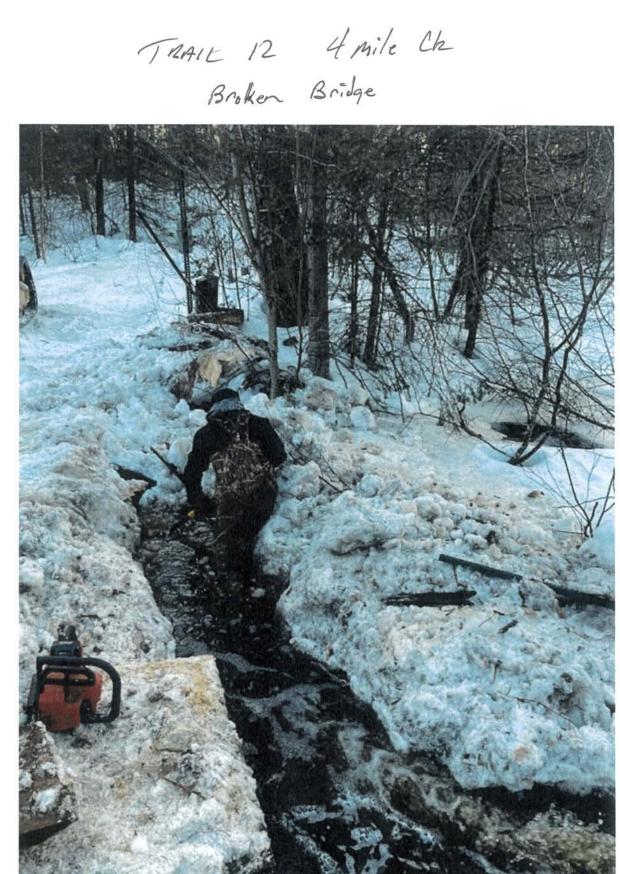




West Approach







TRAIL 12 4 mile Che Bridge

