#### #30 Taylor Black River Bridge

**Motorized Recreation Grant Application** 

**For:** (choose all that apply)

Form 8700-159 (R 02/2024)

Page 1 of 5

X ATV/UTV Trail Aid I Snowmobile Trail Aid Sno

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							DN	NR Use	Only	
be submitted for consideration of tr Stewardship funding. Submit one c necessary attachments. Send appl	hments.	See Pag	e 2 for	Category			Number			
Section 1: Applicant Informatio	n								ľ	
Applicant / Organization Name					Check Re	cipient: I	ndividual other than	authoriz	zed inc	dividual to act
Taylor County Forestry and Red	creation I	Depart	ment	1	on behalf	of the ap	olicant. 🛛 🗙 Sele	ect if the	e same	e as applicant.
Individual Authorized to Act on Beh	alf of App	licant p	er Reso	lution	Check Re	cipient	Name (Name to App	pear on	Chec	k)
Alex Solawetz					Alex Sol	awetz				
Title					Title					
County Forest Assistant Administrator				County Forest Assistant Administrator						
Address				Address						
224 S. 2nd Street					224 S. 2nd Street					
City	Ş	State	ZIP Cod	е	City Sta				State	ZIP Code
Medford		WI	544	51	Medford WI 54451					54451
Telephone Number	E	Email A	ddress					_		
(715) 748-1486	ä	alex.sc	lawetz(	@co.tay	lor.wi.us	5				
Section 2: Project Information I	Required	for all	Project	s						
Project Title						Current	t Funded Miles	lew Mile	es (if a	applicable)
Kuenne Bridge Replacement (Corridor 18 Black River)				r)		348.8				
County	Township	Rang	e • E	E Section 1/4 1/4 1/4 GPS Coordinates: Lat. 45.188756						
Taylor	31 N	1	$\bigcirc$ W	9	NE	NE	Long90.3559	13		

#### **Project Description Summary**

Taylor County is proposing to construct a clear-span bridge on driven pile with open ramp approach for crossing the Black River on a short proposed reroute of snowmobile corridor #18 at corridor #23. The landowner has been consulted and has agreed to sign a 10-year trail easement with the local snowmobile club. The trail receives snowmobile and winter ATV funds. There are safety concerns with continued use of the existing bridge. The current bridge was constructed using a semi trailer frame. It is narrow and the decking and railing are well beyond their service life. Existing bridge span is also at a height where high water levels are obstructed by the bridge and debris is able to collect on and around it.

# Taylor County is requesting this project be split 50/50 between ATV and Snow.

X I certify that	all maintenance la	and use agreemer	ts are on file.						
Estimated Cos	st								
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost			
				\$144,000.00		\$144,000.00			
Leave Blank – DNR Use Only									
Applicant Cert	ification								
	f Authorized Officia	al	Offi	cial's Title					
Alex Solawetz			Сот	unty Forest Assist	ant Administrat	tor			
As the applicant	t's authorized offici	al, I certify that, to	the best of my knowle	edge, the informatio	n in this applicati	on is true and correct.			
Aly	-52	7		4	-10-24				
Signature o	f Authorized Officia	aí		Da	ate Prepared				

dnr.wi.gov

## Due Date: April 15

Department of Natural Resources

State of Wisconsin

Taylor County Forestry and Recreation Department

## **Motorized Recreation Grant Application**

						Form	า 8700-	-159 (R 02/2024)		Page 3 of 5
Appendix A – Required for	or Bridge	Rehat	o/Repl	ace,	New, o	r Rero	oute	with New Br	idge	
Bridge Rehab/Replace	e 🗌 Ne	w Bridę	ge	X	Reroute	with n	iew br	ridge		
County	Township	Range	ΘE	Sectio	on 1/4 1/4	1⁄4	C	GPS Coordinate Lat. 45.188		
Taylor	31 N	1	OW	9	NE	E   N	IE	Long90.355	913	
Water Body Name		-		В	Bridge Na	me			County Inv	entory Number
Black River				K	Kuenne				"Ku	enne"
Funded Trail Name or Number (S	SNARS if app	licable)	)			0	te eve	r received deve	lopment or reh	abilitation funds
Corridor 18				lir	n the pas	t? ()	) Yes	No Ye	ear: \$_	
Bridge is located on: <ul> <li>Privation</li> </ul>	te property			С	Id Bridge	e/Culver	rt Size	12'x48'		
🔘 Publi	c property			N	lew Bridg	je/Culve	ert Siz	e 12'x45'w/12	x45' approac	h span
Landowner Where Bridge is Loca	ated			Т	Telephone Number Length of Trail L			ail Use Agreer	nent (5 year	
MARVIN A & JOANNE M KUENNE (715) 748-2149 20 years							minimum)			
Current maximum load		lbs.	Age of	Bridge	e Bri	dge Ma	iterial			
Proposed maximum load	25,000	lbs.	29		Ste	eel fran	ne wi	th wooden dec	:k	
Sponsoring Club Name				Club	o Contac	t			Telephone Nur	nber
We-Whittlesey Whizzers				Dav	ve Roige	er			(715) 9	65-6166
Do you have your trail bridges po	-		n load? ● No	groo	omed wit			d of the other bri	dges on the sy	stem if
What is the weight of your puller	& drag/gradii	ng equij	pment?	-20,0	000lbs					
15-20,000lbs										
What other recreational trail uses	are planned	for this	bridge	?						
Snowmobile and winter ATV	use only.									
If there are other Recreational us	es planned,	how mu	ich of th	ne brid	ge cost v	vill be pa	aid for	by non-snowm	obile or non-A	V users?
● Yes ○ No Have you cont	tacted your lo	ocal <u>DN</u>	R Wate	er Mana	agement	Special	list (W	(MS) regarding	a permit?	
● Yes ○ No Is a permit nee	eded? (Pleas	se provi	ide any	writter	n corresp	ondenc	e from	n WMS.)		
● Yes ○ No Have you cont	tacted your C	ounty Z	Zoning [	Dept. r	egarding	a flood	plain c	determination?		
• Yes O No Will an H & H	(hydrologic a	and hyd	lraulic) s	study k	pe require	ed?				

# Bridge Project Detailed Description

Taylor County is proposing to construct a clear-span bridge on driven pile with open ramp approaches for crossing the Black River on a short proposed reroute of snowmobile corridor #18 at corridor #23. The landowner has been consulted and has agreed to sign a 10-year trail easement and capitol improvement easement. The trail receives snowmobile and winter ATV funds. There are safety concerns with continued use of the existing bridge. The current bridge was constructed using a semi trailer frame. It is narrow and the decking and railing are well beyond their service life. Existing bridge span is also at a height where high water levels are obstructed by the bridge and debris is able to collect on and around it. Winter ATV use of trail is allowed after trails have been open to snowmobiles and have accumulated snowpack. Use by ATVs is not allowed when temperature is above 28 degrees. UTVs are not allowed on Taylor County snowmobile trails.

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# Appendix A (continued)

Summarize Costs in Appropriate Categories:

	Bridge Structure	
	Quote 1	Quote 2
	● Steel O Wooden	○ Steel
Bridge Dimensions:	45'X12'	45'x12'
Bridge Manufacturer: Anderson	Bridges	Wheeler
Design Weight Load	1000 lbs.	<b>25,000</b> lbs.
Cost of Structure: 1. Engineering	\$ <u>8,000</u>	\$
2. Structure	\$ <u>84,000</u>	\$ <u>88,000</u>
Subtotal	\$ <u>92,000</u>	\$ <u>88,000</u>
	Quote 1	Quote 2
	Contractor or () Sponsor	<ul> <li>Contractor or O Sponsor</li> </ul>
Installation Costs:	Estimate	Estimate
1. Engineering	\$	\$ 90,000
2. Site Preparation	\$ <u>10,000</u>	\$
3. Abutments	\$ <u>24,000</u>	\$
4. Pilings/Piers	\$	\$ 16,000
5. Approaches	\$	\$
6. Riprap	\$ 4,000	\$
7. Labor	\$ <u>10,000</u>	\$
8. Equipment Rental	\$	\$
9. Culverts	\$	\$
10. H & H Study	\$ 3,000	\$ 3,000
11. Wetland Delineation	\$	\$
12. Other Permit	\$ 1,000	\$ 1,000
Subtota	l \$ <u>52,000</u>	\$ <u>110,000</u>
Total Cos	t \$ <u>144,000</u>	\$ <u>198,000</u>

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

En	tire Deck and Railing Projects		🔵 Cor	tractor	O Sponsor	O Club	
Brid	dge Dimensions:						
Des	sign Weight Load		lbs.				
1.	Materials	\$_					
2.	Labor	\$_					
	Tota	I\$_		-			

Taylor County Forestry and Recreation Department

# **Motorized Recreation Grant Application**

							Form 870	00-159 (R 02/2024)		Page 5 of 5
Appendix B – R	lequired for	<sup>.</sup> Trail/Qu	ualified	d Trou	ute Reh	ab, Re	route,	or Development		
Trail Rehat		ualified T	route		New Tr	ail	× Tra	ail Reroute (Mandat	tory or Discre	tionary)
County		Township	Range	ΘE	Section	1/4 1/4	1/4	GPS Coordinates: Lat. 45.188756		
Taylor		31 N	1	OW	9	NE	NE	Long90.355913	3	
Funded Trail Name	or Number (SN	ARS if app	licable)	1	Has	this trail	ever rec	eived development or	<sup>-</sup> rehabilitation f	funds in the
Corridor 18					pas	t?	⊖ Ye	s 💽 No Year:	\$	
Trail is located on:	_		l	ength	of Easen	nent or La	andowne	r Use Agreement	Expiration Dat	te
<ul> <li>Private prop</li> </ul>	erty 🔿 Pub	lic property	'				10	years	04/12/	2044
Landowner Where T	rail is Located							Telephone Number		
MARVIN A & JC	ANNE M K	UENNE						(715)	) 748-2149	
What other recreation	onal trail uses a	are planned	l for this	trail?						
	Snowmobile and Winter ATV If there are other Recreational uses planned, how much of the trail development/rehab. cost will be paid for by other users?									
How many miles wo	uld be affected	l if this proj	ect is no	ot funde	d? V	Vill this re	sult in cl	osure of a trail?		
new many miles we	5.4			ot rande				• Y	′es 🔿 No	
Is this a critical secti			em?	Is the	re a reas	onable al	ternative	?		
		~ `	) No	Rerou	ute is wi	thin sam	ne owne	rship as current trai ge (see map)	l and provide	s a more
Does any section of contain a bridge?	~ ~		this brid the ne		uire reha /ears?	bilitation	-	What is the w No grading equip	eight of your pu ment?	uller & drag/
									20,000	lbs.
● Yes ◯ No H	Yes () No Have you contacted your local <u>DNR Water Management Specialist (WMS)</u> regarding a permit?									
• Yes O No Is										
• Yes O No V	Vill this project	be located	near or	cross	any interr	nittent or	perennia	al waterway? Surface	<u>e Water Data V</u>	<u>'iewer</u>
● Yes ◯ No V										

### **Trail Project Detailed Description**

There is a short reroute associated with the placement of this proposed bridge over the Black River. The new trail and bridge will be within same privately owned parcel as the trail and bridge to be abandoned/removed. The short section of trail proposed to be abandoned involves 2 sharp right angles between the river and the landowners pasture fence. The reroute does not follow wire fence, does not contain sharp corners, and is therefore safer. The proposed reroute is already clear and will require no additional funding to make it ready once the bridge is installed. The proposed reroute is shorter than the current trail and will result in a reduction of about 150ft in trail length. The loss of river crossing here would dead end a segment of trail approximately 5.4 miles long from trail corridor 23 to trail route E.

# **Guidelines for Applicant**

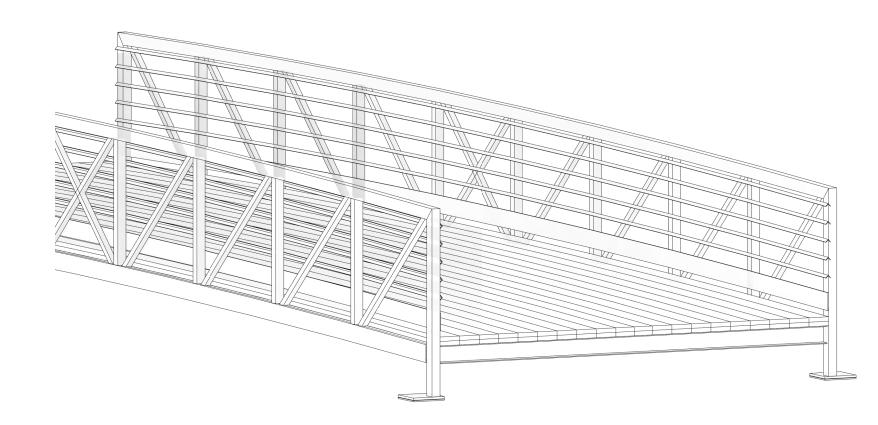
Complete this form for each bridge structure you are submitting a grant application for. Provide any additional documents not requested on application checklist to substantiate your points, including actual deeded easements.

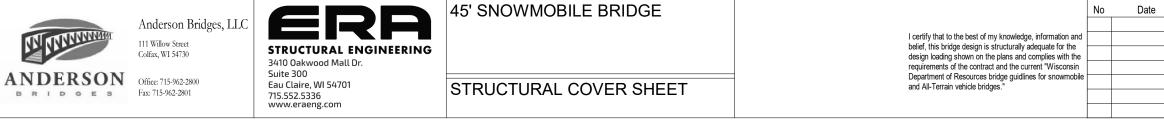
Category	Possible Points	Actual Points
1 Condition of the Structure (max of 10 points)		
Has a certified bridge inspection report that supports the project & demonstrates need (see	10	•
example, must provide copy of report by August 1 for 2024 only)	10	0
2 <b>Permits</b> (maximum points 4)		
Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	1
Permit in hand / Bridge already permitted	3	0
3 Funding (maximum points 2) Are other funds already committed?		
50% or greater from other funding source(s)? Snow/ATV 50/50	2	0 2
11% - 49% from other funding source(s)?	1	0
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	0
10 or more year <b>deeded easement</b> on private land or other public land, for all portions of	_	•
that trail to the nearest road on each side of the bridge	-	5
3-9 year <b>deeded easement</b> on private land or other public land, for <u>all portions of that</u>	4	0
trail to the nearest road on each side of the bridge 10 or more year <b>deeded easement</b> on private land or other public land, for just the bridge	3	•
site	5	0
3-9 <b>deeded easement</b> 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	0
3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	0
<ul> <li>5 Wiles 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)</li> </ul>		
Less than 20 miles	1	1
20 miles or more	3	
No other snowmobile trails connect. Explain:	4	
DEDUCTIONS		
6 <b>County Active Project Deduction</b> (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	0
GRAND TOTAL	_	7 8

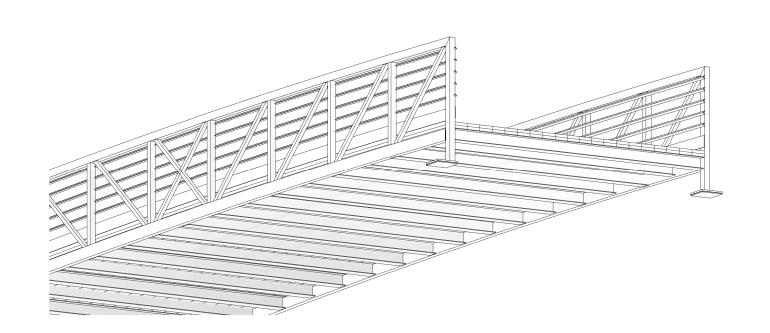
Comments/Notes:

# STRUCTURAL SHEET INDEX

INDICATES DRA	INDICATES DRAWINGS ARE BEING ISSUED								
•S INDICATES DRAWINGS ARE BEING ISSUED AND SIGNED FOR THE FIRST TIME									
▲ INDICATES DRAWINGS ARE BEING ISSUED ON SMALL SHEETS OR WRITE UP									
R INDICATES DRA	INGS ARE BEING ISSUED FOR REFERENCE ONLY (NOT FOR CONSTRUCTION)								
ISSUE									
SHEET #									
S1	STRUCTURAL COVER SHEET								
S2	STRUCTURAL NOTES								
S3									
S4	SECTION & DETAILS								
S5	SECTIONS & DETAILS								







E s

BRIDGE REACTIONS										
DESCRIPTION	P (LBS)	H (LBS)	L (LBS)	V (LBS)						
DEAD LOAD	4,500	-	-	-						
UNIFORM LIVE LOAD	8,100	-	-	-						

VEHICLE LOAD	-	-	-	25,000
WIND UPLIFT 20 PSF	-4,000/+1,400	-	-	-
WIND	+/- 400	1,800	-	-
SNOW	4,100	-	-	-
THERMAL	-	-	540	-

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)

"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)

"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

"V" - CONCENTRATED LIVE LOAD EACH END OF BRIDGE (2 PER BRIDGE)

UHMW PAD COEFF. = 0.12

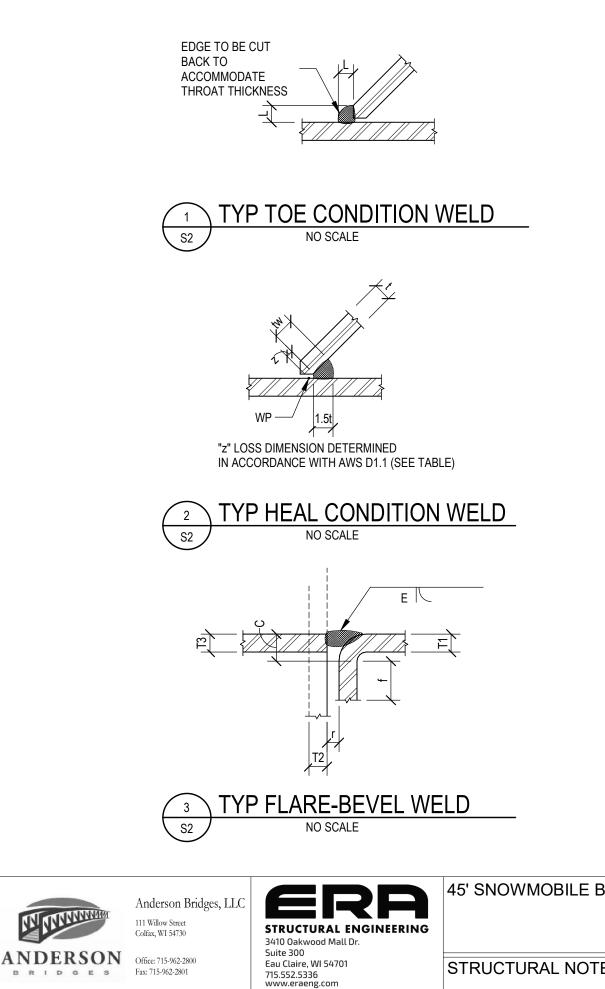
BRIDGE SELF WEIGHT: 18,000 LBS

+ = UNFACTORED DOWNWARD LOAD - = UNFACTORED UPWARD LOAD

# OVERALL PROJECT NOTES:

1.) 3D VIEWS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR REFERENCE ONLY

Revision Description			Drawing Number:
	Date:	2023.09.07	
	Drawn by:	MJD	
	Checked by:	RTJ	S1
			01



#### GENERAL STRUCTURAL NOTES

#### A. DESIGN REFERENCES

1. STRUCTURAL STEEL SHALL BE DESIGNED IN ACCORDANCE WITH THE "WISCONSIN DEPARTMENT OF RESOURCES (DNR) BRIDGE GUIDELINE FOR SNOWMOBILE AND ALL TERRAIN VEHICLE BRIDGES". WELDED HSS CONNECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE/AMERICAN WELDING SOCIETY (ANSI/AWS D1.1), AND/OR AISC "SPECIFICATION FOR THE DESIGN OF STEEL HOLLOW STRUCTURAL SECTIONS".

- B. DESIGN LOADING INFORMATION
  - 1. LOADING:
    - 60 PSF UNIFORM LIVE LOAD
    - 20 PSF WIND LOAD (FULL PROJECTED AREA)
    - 30 PSF SNOW LOAD
    - 25,000# VEHICLE LOAD (SEE NOTE "2")

2. 90 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 25,000# VEHICLE LOAD. THE VEHICLE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF LOAD ON REAR WHEELS. THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIUM STRESS IN EACH MEMBER, INCLUDING DECKING.

C. FABRICATION

1. WELDING SHALL CONFORM TO THE APPROPRIATE PROVISIONS OF THE ANSI/AWS D1.1 STRUCTURAL WELDING CODE AND/OR ANSI/AWS D1.5 BRIDGE WELDING CODE. WELDING ELECTRODES SHALL BE A MINIMUM E80. UNLESS SHOWN OTHERWISE WELDS SHALL BE MINIMUM RECOMMENDED BY AWS.

2. ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE COMPLETE PENETRATION TYPE WELDS ON BOTH SIDES WITH A PARTIAL PENETRATION GROOVE WELD ON THE TOP SIDE AND A FILLET WELD ON THE BOTTOM SIDE.

3. UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAUGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:

3.1. BOTH ENDS OF VERTICALS, DIAGONALS, & FLOOR BEAMS SHALL BE WELDED ALL AROUND. 3.2. BRACES/DIAGONALS WILL BE WELDED ALL AROUND.

3.3. MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.

### D. MATERIAL/INFORMATION

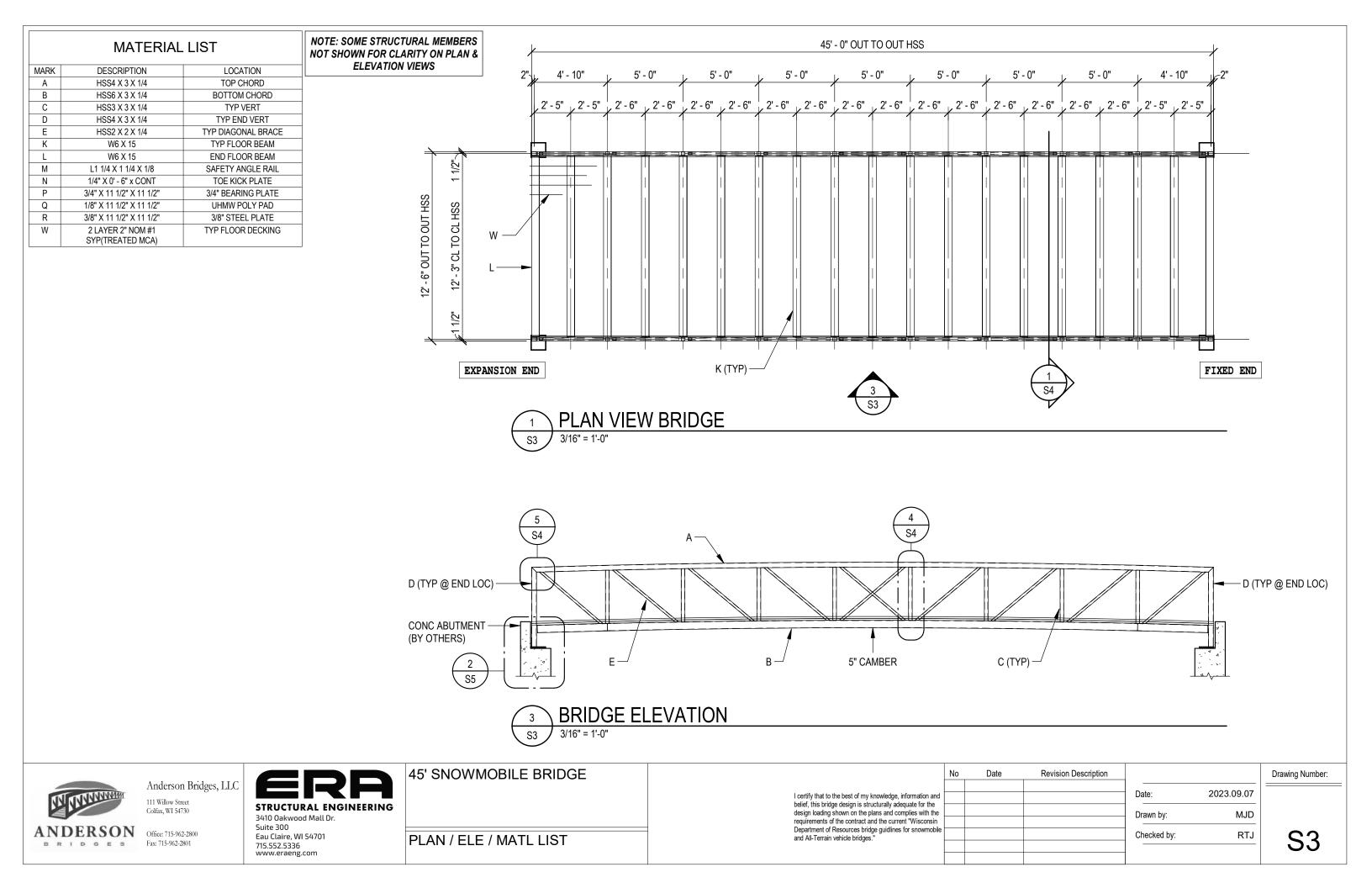
1. STRUCTURAL STEEL (Fy=50 KSI) SHALL BE HIGH STRENGTH, LOW ALLOY, ATMOSPHERIC CORROSION RESISTANT ASTM 847 COLD-FORMED WELDED SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS, AND/OR ASTM A588 PLATE AND STRUCTURAL STEEL SHAPES.

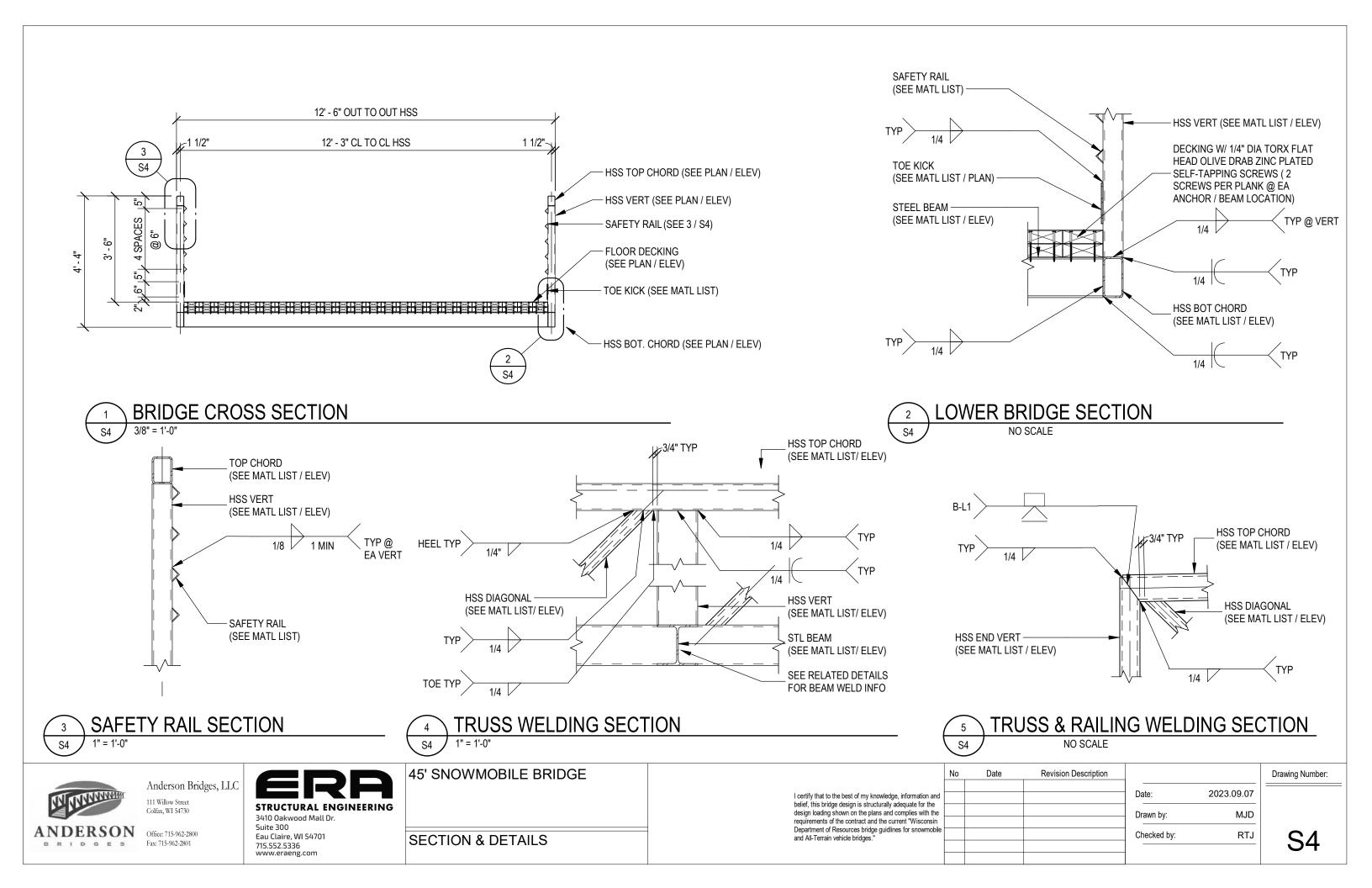
2. WOOD DECKING SHALL BE 2 LAYERS OF MCA TREATED 2" NOMINAL #1 SOUTHERN YELLOW PINE (SYP)
ALLOWABLE BENDING = 1,250 PSI
ALLOWABLE SHEAR = 175 PSI
MODULOUS OF ELASTICITY = 1,600,000 PSI

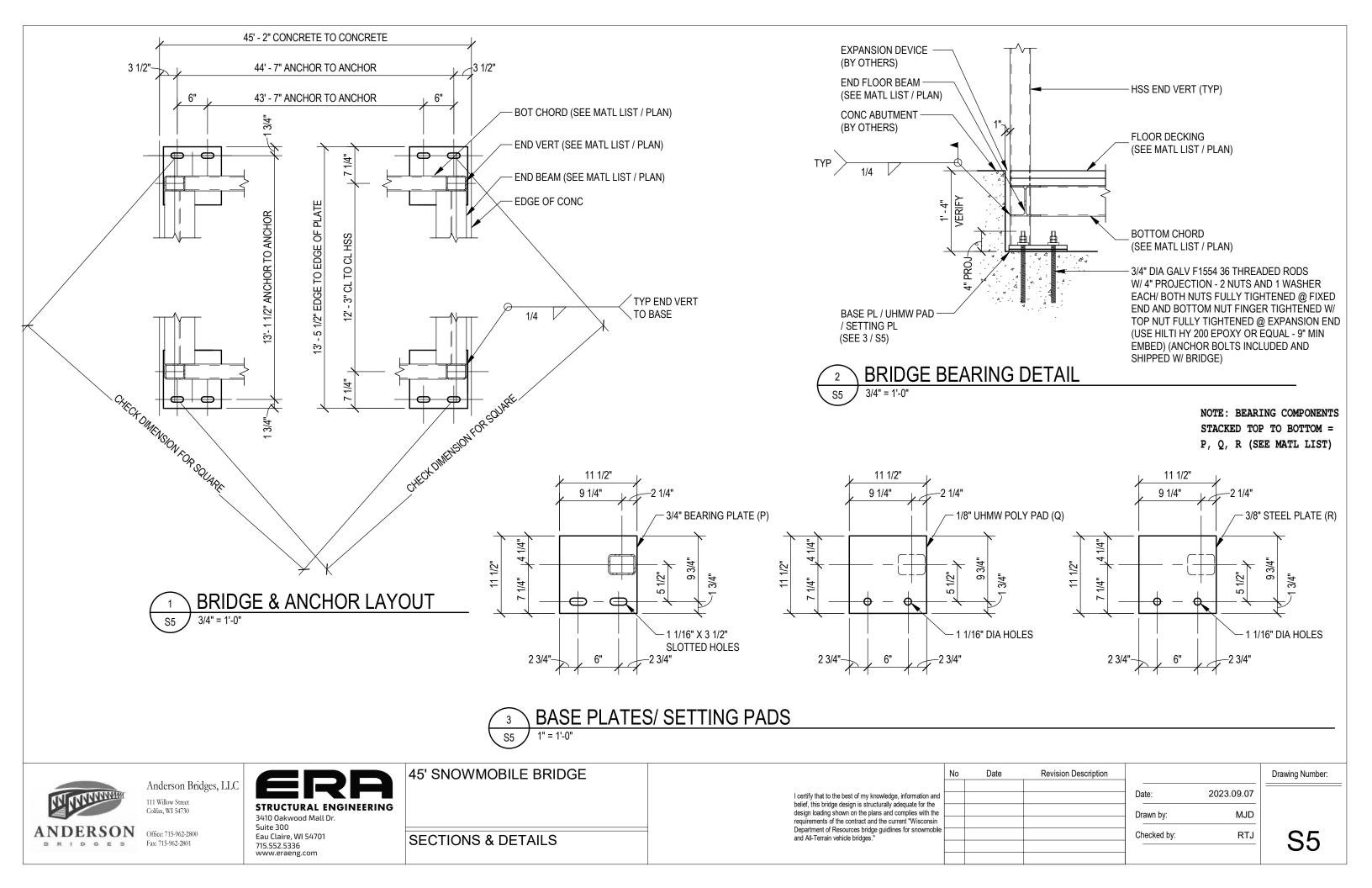
### E. FINISHING

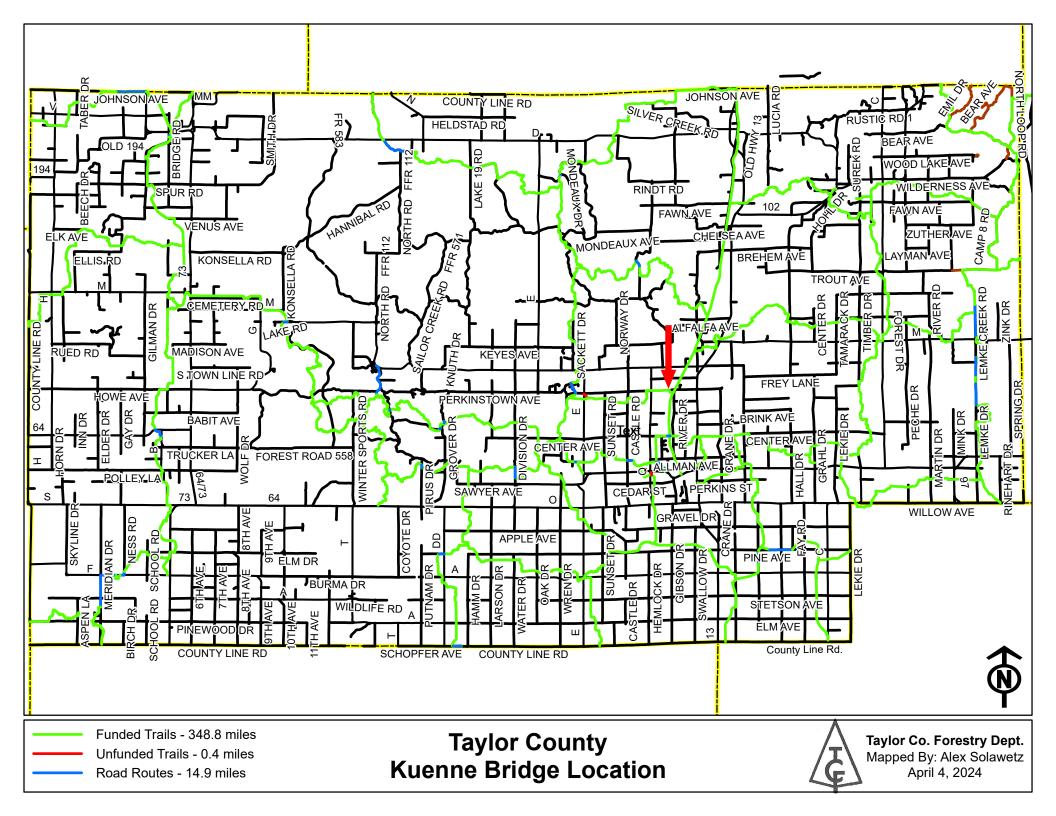
1. ALL STEEL REQUIRING BLAST CLEANING SHALL BE BLAST CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL PREPARATIONS SPECIFICATIONS NO. 7 BRUSH OFF BLAST CLEANING, SSPC-SP7, LATEST EDITION.

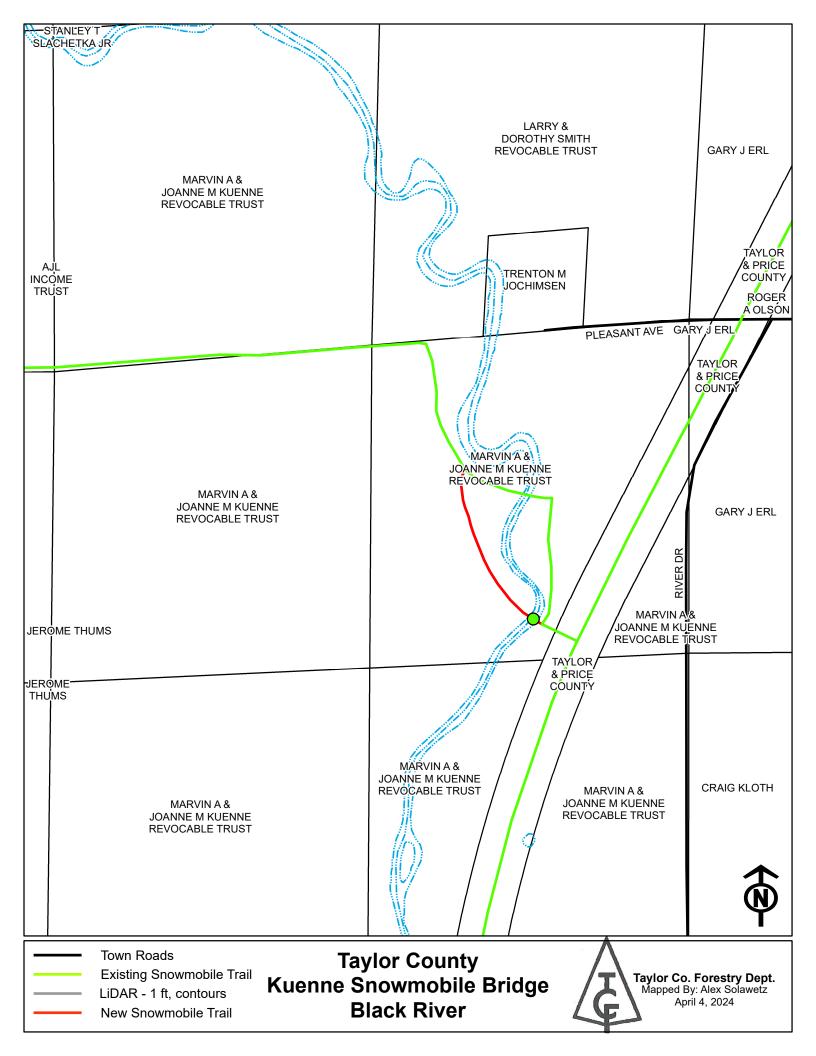
RIDGE	No	Date	Revision Description			Drawing Number:
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans and complies with the requirements of the contract and the current "Wisconsin Department of Resources bridge guidlines for snowmobile and All-Terrain vehicle bridges."				Date: Drawn by: Checked by:	2023.09.07 MJD RTJ	S2

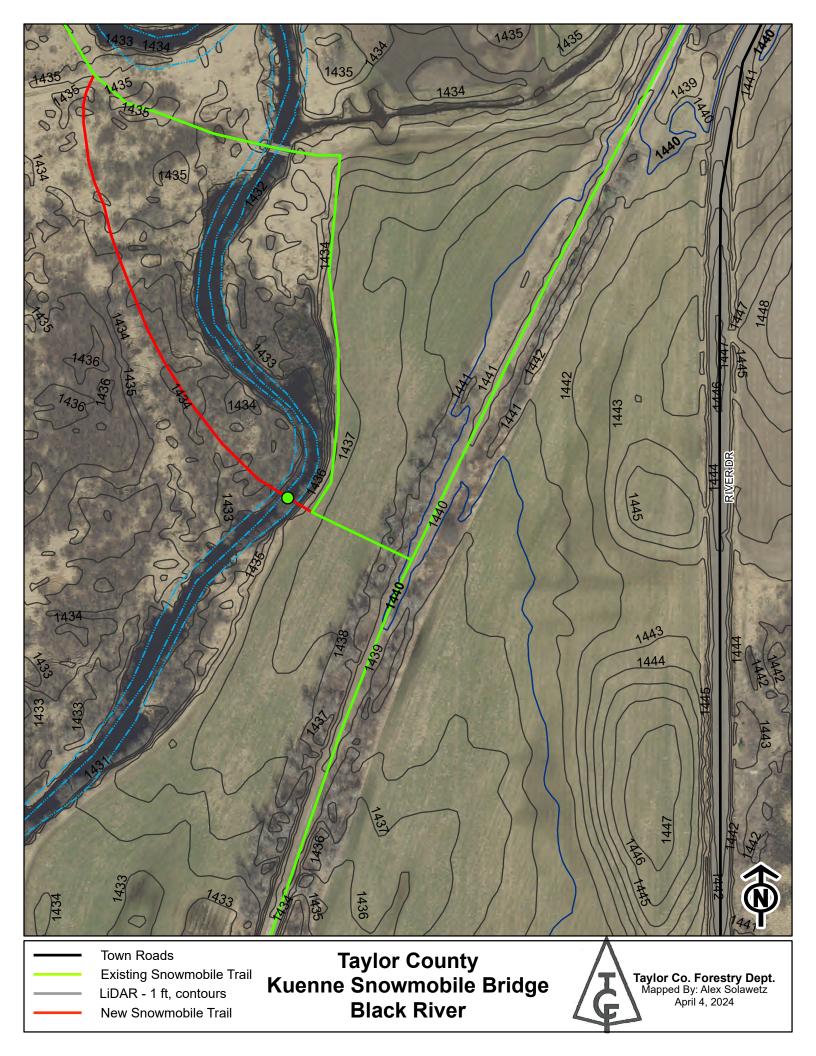


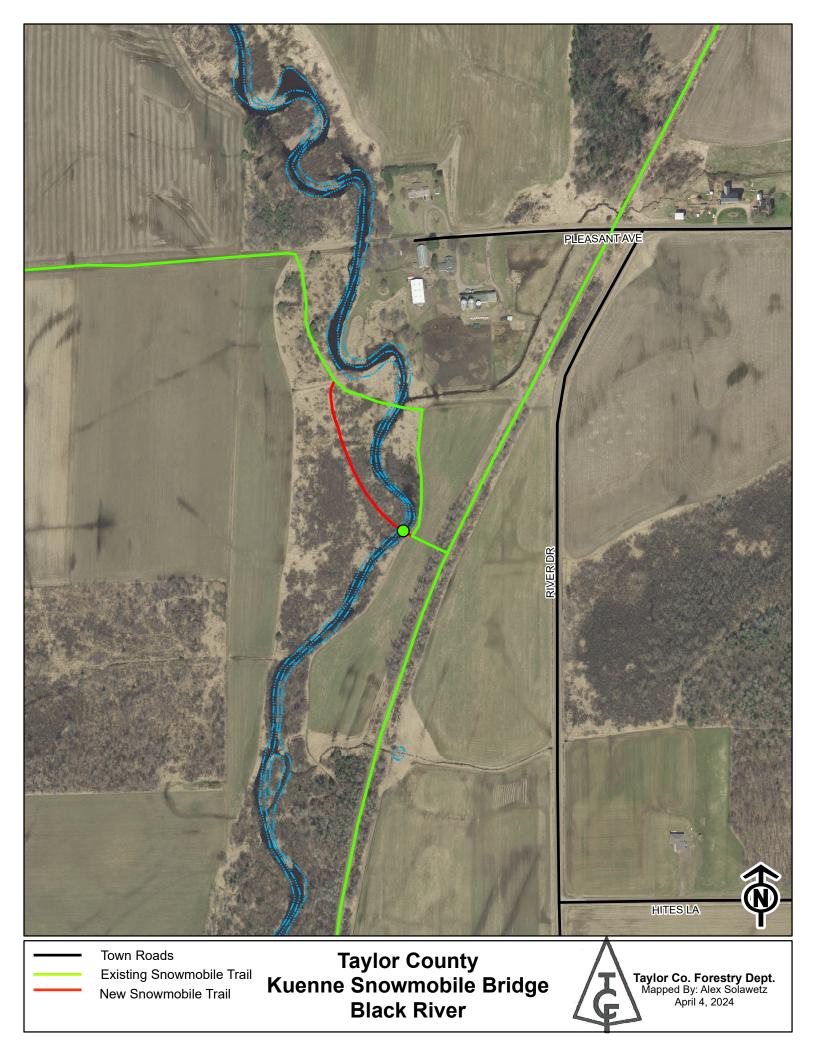


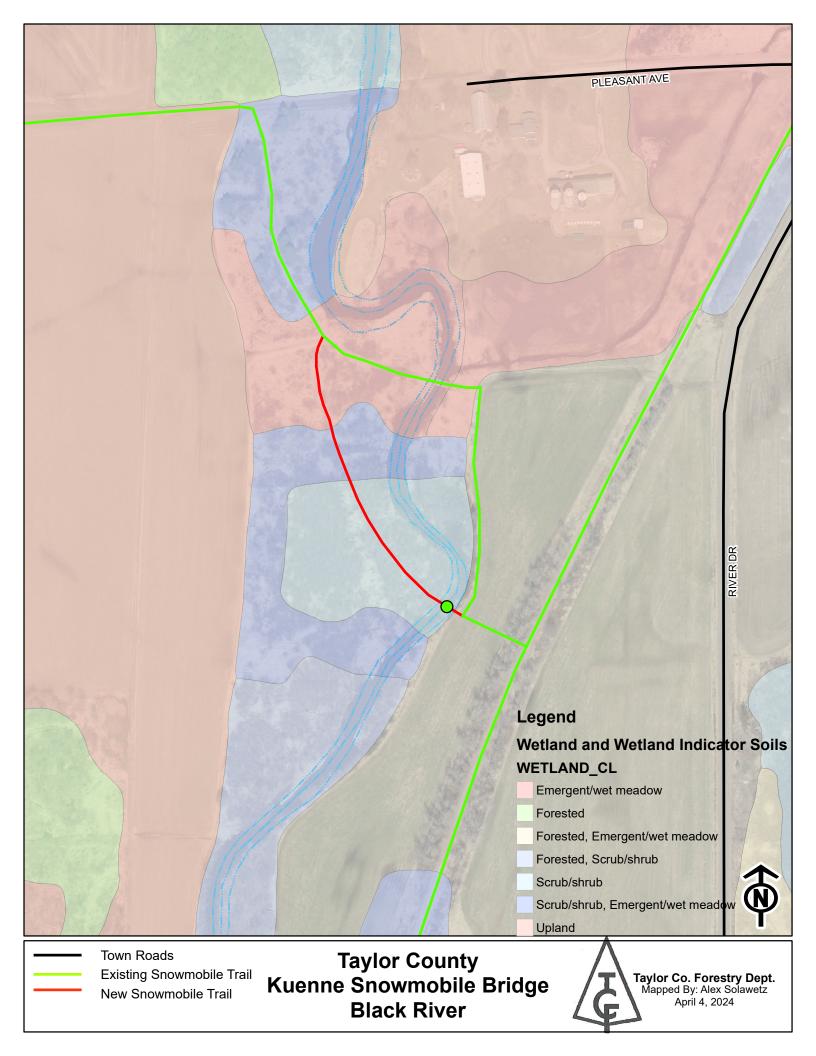












# [Outside Sender]

Hi Alex:

If you are moving the location of the bridge, you will need a new permit. Here is a link to our website for more information on the types of permits available: <u>https://dnr.wisconsin.gov/topic/Waterways</u>

Sincerely,

Vicky

### We are committed to service excellence. Visit our survey at <u>http://dnr.wi.gov/customersurvey</u> to evaluate how I did.

Vicky S. Nelson Phone: (715) 822-2691 vicky.nelson@wisconsin.gov

From: Solawetz Alex <alex.solawetz@co.taylor.wi.us>
Sent: Thursday, March 14, 2024 3:28 PM
To: Nelson, Vicky - DNR <Vicky.Nelson@wisconsin.gov>
Subject: Taylor County Snowmobile Bridge

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Vicky,

I am submitting a motorized recreation grant request to fund the replacement and relocation of a snowmobile and winter ATV bridge in Taylor County and am wondering if a permit will be needed.

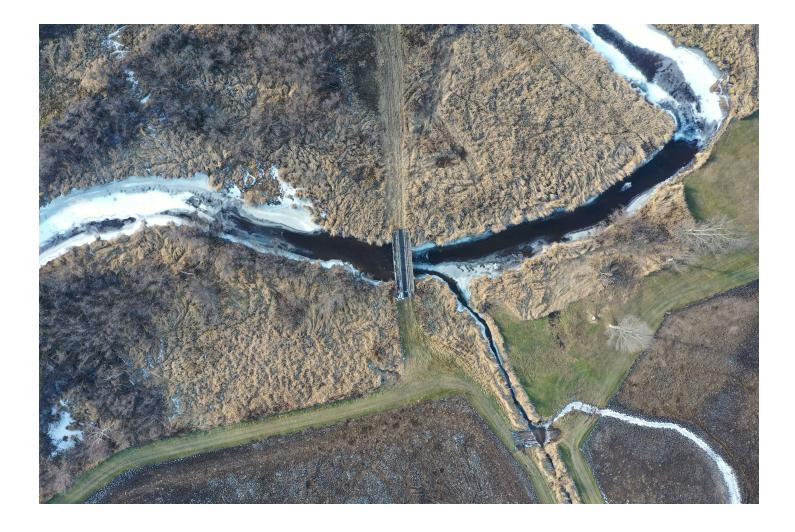
Please let me know what information is required.

Thanks,

Alex Solawetz Assistant Administrator Taylor County Forestry and Recreation Department 224 South 2<sup>nd</sup> Street Medford, WI 54451 O: (715)-785-8338 C: (608)-214-8812



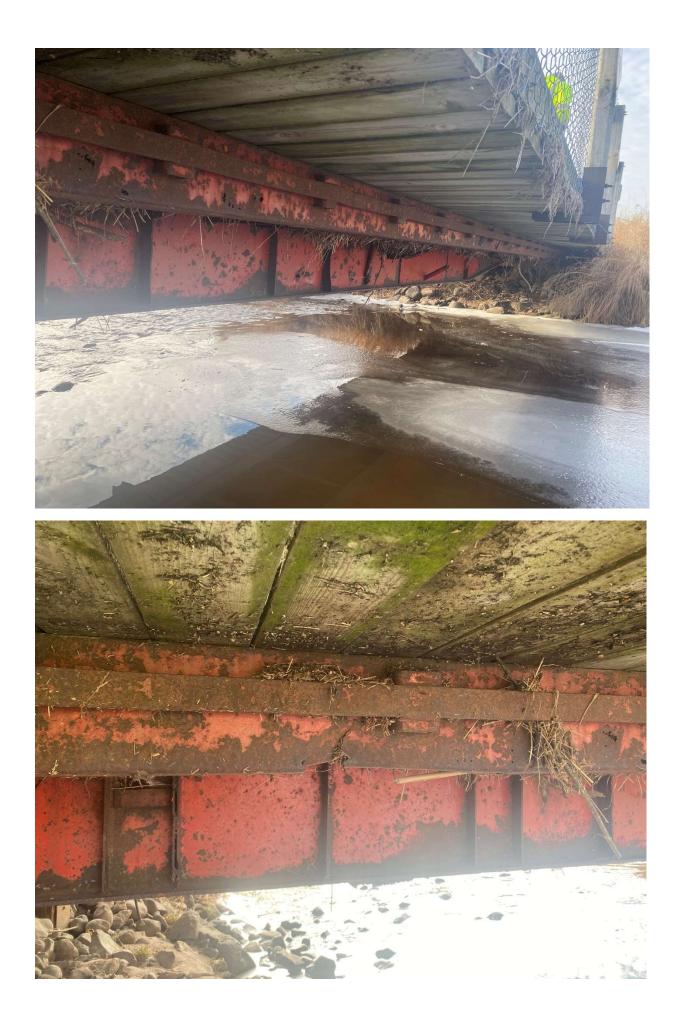












# Proposed location:





