State of Wisconsin	Motorized Red	creation Gra	nt Application				
Department of Natural Resources	For: (choose all	For: (choose all that apply)					
Due Date: April 15		⊠ ATV/UTV Trail Aid ⊠ Snowmobile Trail Aid					
	X Shown	IODILE TTAILAIO					
Notice: Completion of this form is required under Wise financial assistance. Personally identifiable information Natural Resources (DNR) may provide this information	n found on this form is not intended to b	e used for any othe	er purpose. The Department of				
Instructions: Applications may combine more the	an one source of funds. They may	one source of funds. They may DNR Use Only					
be submitted for consideration of traditional ATV, Stewardship funding. Submit one copy of all forms necessary attachments. Send applications to your	s and attachments. See Page 2 for	Category	Number				
Section 1: Applicant Information							
Applicant / Organization Name			an authorized individual to act				
Tri County Trail Commission		on behalf of the applicant. Select if the same as applic					
Individual Authorized to Act on Rehalf of Applicant	ther Resolution Check Recipient	Name (Name to	Annear on Check)				

S-4 Tri Co Cheese Country Bridge 3 Rehab

Individual Authorized to Act on Ber	iali ol App	pplicant per Resolution			Check Recipient Name (Name to Appear on Check)					
Max Blackbourn				]	Max Blackbourn					
Title					Title					
Tri County Trail Coordinator				ŀ	Tri Coun	ty Trail	Coordinator			
Address					Address					
700 Main Street					700 Mair	Street				
City		State	ZIP Cod	e (	City				State	ZIP Code
Darlington		WI	535	30	Darlingto	m			WI	53530
Telephone Number		Email	Address							
(608) 776-4893		trails(	lafayet	tecount	ywi.org					
Section 2: Project Information I	Required	for al	<b>Project</b>	S		a start				and the second
Project Title						Current	Funded Miles	New M	liles (if	applicable)
Cheese Country Trail Bridge #3 Re-Decking										
County	Township	Rang	ge ○E	Section	1/4 1/4	1/4	GPS Coordinate Lat. 42.8389			
lowa	ss lain Street gton WI 5 one Number Email Addre 776-4893 trails@lafa n 2: Project Information Required for all Proj t Title e Country Trail Bridge #3 Re-Decking Township Range						long -90 178	21		

Project Description Summary Rehabilitation of Bridge #3 on the Cheese Country Trail over Brewery Creek in Iowa County. Project scope is to include removal of existing deteriorated deck and railing. When existing decking and railing are to be removed, the center piling is proposed to also be removed in order to provide better stream-flow through the bridge structure. Once that work is completed, a Wheeler wood decking and railing system is proposed to be installed with some minor approach work.

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

Estimated Cos	st		a stand and the			and the second states and
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$132,740.00		\$132,740.00
			Leave Blank - DNR	Use Only		
Applicant Cert	tification	and the second				
Printed Name o	of Authorized Offici	al	Offi	icial's Title		
Max Blackbou	urn		Tra	ail Coordinator		
As the applican	t's authorized offic	ial, I certify that, to	the best of my knowl	ledge, the informatio	on in this application	on is true and correct.

Signature of Authorized Official

4-15-20 Date Prepared

Tri County Trail Commission

# **Motorized Recreation Grant Application**

Form 8700-159 (R 02/2024) Page 3 of 5

Appendix A – Required for	Bridge R	ehab/Rep	lace,	, New,	or R	leroute	e with New Bi	ridge	
⊠ Bridge Rehab/Replace	🗌 New	Bridge		] Reroul	te wi	th new l	oridge		
County	Township R	lange	Secti	ion 1/4 1/4	4	1/4	GPS Coordinate		
		Ŭ ОЕ					Lat. 42.842		
Iowa	N	Ow					Long90.178		- NL
Water Body Name				Bridge N				County Invento	ory Number
Brewery Creek				Bridge				#3	
Funded Trail Name or Number (SN	IARS if applie	<u>cable)</u>			-		-	elopment or rehabilit	ation funds
Cheese Country Trail				in the pa	IST?	⊖ Yes	0	ear:\$	
Bridge is located on: <ul> <li>Private</li> </ul>	property		0	Old Bridg	ge/Cu	ulvert Siz	e 13' X 30'		
	property			New Brid	dge/C	ulvert Si	ze <u>13' X 30'</u>		
Landowner Where Bridge is Locate	ed		-	Telephor	ne Nı	umber	Length of T	rail Use Agreement	(5 year
Pecatonica Rail Transit Commi	ssion						Non-Expir	ring	minimum)
Current maximum load 40	),000 lk	os. Age of	f Bridg	ridge Bridge Material					
Proposed maximum load 40	),000 lt	os. 50+		Wood pilings & girders					
Sponsoring Club Name			Clu	ub Conta	ct			Telephone Number	
Tri County Trail Commission			Ma	ax Black	kbou	rn			
Do you have your trail bridges post						ridges on the system	n if		
	ΟY	es 💿 No	1-			is bridge			
What is the weight of your puller &	drag/grading	equipment	40 ma	,000 Ib. aintain t	this he tra	bridge i ail corri	dor, as it is rem	heavier equipment note and we have i	11 to 10 other
See note>						the trai			
What other recreational trail uses a	re planned fo	or this bridge	?						
Pedestrian, bicycle, snowmobile	е								
If there are other Recreational uses	s planned, ho	w much of t	he brid	dge cost	will b	be paid for	or by non-snowm	nobile or non-ATV us	sers?
None				-					
						a ciclict ()		o n o mili0	
Yes No Have you contact		20						a permit?	
• Yes O No Is a permit need									
O Yes ● No Have you contac				•		•	determination?		
	iydrologic an	d hydraulic)	study	be requi	ired?				

# Bridge Project Detailed Description

Rehabilitation of Bridge #3 on the Cheese Country Trail over Brewery Creek in Iowa County. Project scope is to include removal of existing deteriorated deck and railing. When existing decking and railing are to be removed, the center piling is proposed to also be removed in order to provide better stream-flow through the bridge structure. Once that work is completed, a Wheeler wood decking and railing system is proposed to be installed with some minor approach work.

Reasoning for the increased load limit is to ensure it is adequate for maintenance equipment and trucks to haul in materials after any potential flood damages.

It is unknown what permitting requirements will be for the in-stream work will be as of yet. A pre-application meeting with the WMS will be planned before applying for any permits.

The bridge structure overall is remaining the same so an H&H will not be required.

# **Motorized Recreation Grant Application**

Form 8700-159 (R 02/2024)

Page 4 of 5

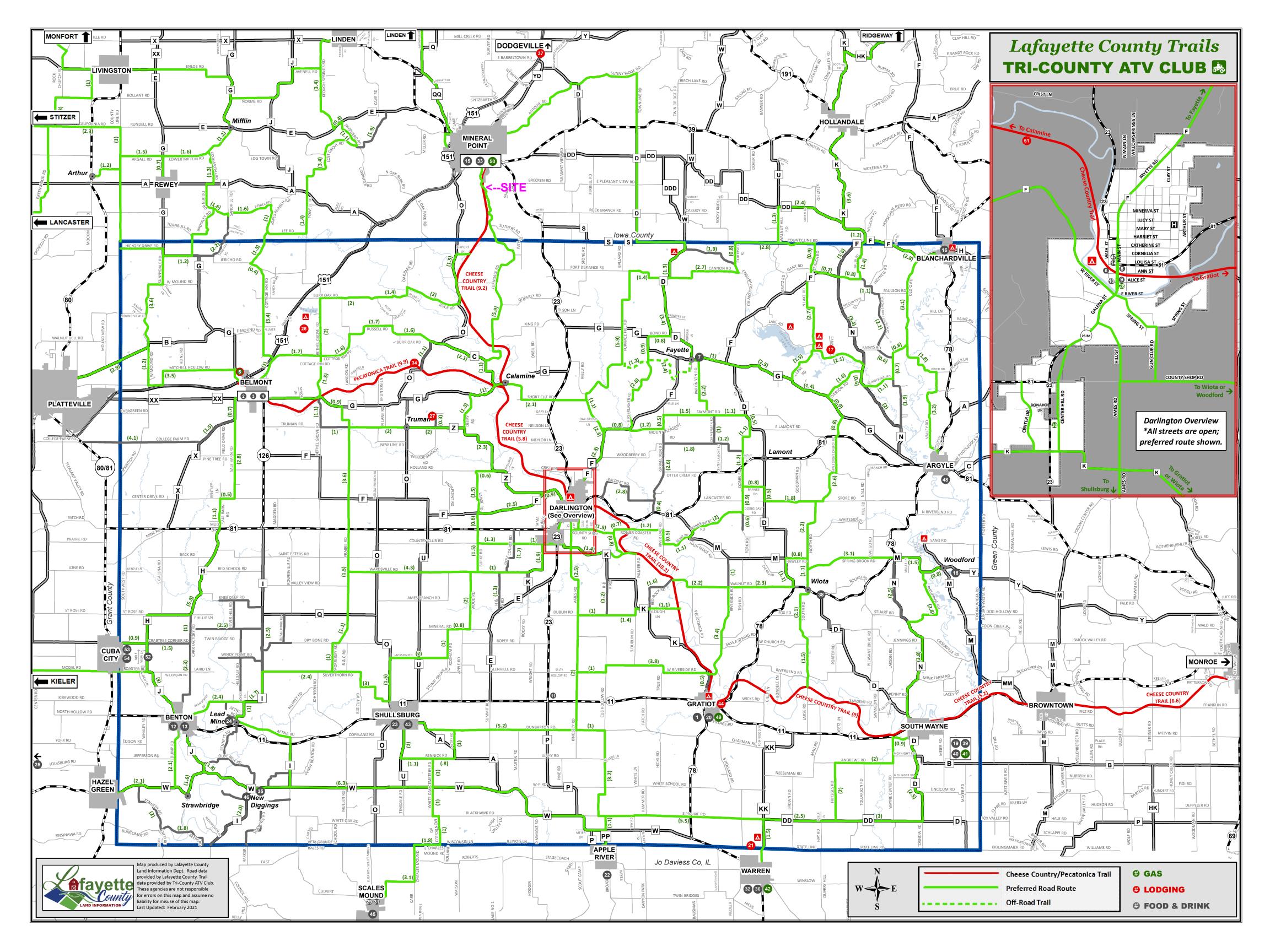
# Appendix A (continued)

Summarize Costs in Appropriate Categories:

	Bridge Structure	
	Quote 1	Quote 2
	⊖ Steel	○ Steel ● Wooden
Bridge Dimensions:	13' X 30'	13' X 30'
Bridge Manufacturer: Wheeler		
Design Weight Load	<u>40,000</u> lbs.	40,000 lbs.
Cost of Structure: 1. Engineering	\$	\$
2. Structure	\$ <u>35,000</u>	\$ <u>35,000</u>
Subtotal	\$ <u>35,000</u>	\$ <u>35,000</u>
	Quote 1	Quote 2
۲	Contractor or 🔿 Sponsor	○ Contractor or ● Sponsor
Installation Costs:	Estimate	Estimate
1. Engineering	\$ 37,740	\$ 37,740
2. Site Preparation	\$	\$ 10,000
3. Abutments	\$	\$
4. Pilings/Piers	\$	\$
5. Approaches	\$	\$
6. Riprap	\$	\$
7. Labor	\$ 60,000	\$ 45,000
8. Equipment Rental	\$	\$ 12,000
9. Culverts	\$	\$
10. H & H Study	\$	\$
11. Wetland Delineation	\$	\$
12. Other	\$	\$
	\$ 97,740	\$ 104,740
	t \$ 132,740	\$ 139,740

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

En	tire Deck and Railing Projects		<ul> <li>Cont</li> </ul>	ractor	○ Sponsor	O Club	
Brid	dge Dimensions:						
De	sign Weight Load		 lbs.				
1.	Materials	\$	 				
2.	Labor	\$					
	Tota	۱\$_	 				





Tri-County Trail Commission Max Blackbourn, Trail Coordinator 700 Main Street Darlington, WI. 53530 608-776-4893

DATE: April 14, 2025

TO: Off Road Vehicle Council

RE: Bridge #3 Rehabilitation Application

Dear Members of the Off Road Vehicle Council,

I am including this letter in the application to provide more context to the application being provided the bridge inspection did not call for a need for re-decking the bridge.

The current structure of the bridge has been problematic due to the center piling, which has been causing debris to accumulate and restrict flow through the structure every high-water event. This has also led to erosion to begin forming around the southern abutment as called out in the bridge inspection report. Due to these issues, this causes re-occurring repair costs we would rather spend on other maintenance activities.

It is my belief to effectively address this issue, the bridge deck would need to be removed to facilitate the removal of the center piling. In doing so, the bridge's concrete decking would be ruined, needing a replacement and a proposed new Wheeler decking & railing system which would span the entire channel without the need for a substantial change to the proposed decking system after consultation with an engineer. By eliminating the center piling obstruction, we aim to reduce the recurring debris buildup and improve the overall functionality and safety of the bridge and provide less restricted flow through the bridge structure in high water events.

I kindly ask you take a moment to review the attached materials and consider funding this application. Please feel free to call me at 608-776-4893 if you have any questions.

Thank you for your time and consideration.

Best regards,

Vax Blackborn

Max Blackbourn Trail Coordinator



#### Estimates for Cheese Country Trail bridges

 From Aaron Palmer <apalmer@westbrookeng.com>

 Date
 Wed 3/12/2025 3:11 PM

 To
 Max Blackbourn <max.blackbourn@lafayettecountywi.org>

4 attachments (343 KB)
 Bridge #48 Estimate.pdf; Bridge #3 Estimate.pdf; Bridge #2 Estimate.pdf; Bridge #18 Estimate.pdf;

Max,

Attached are four separate estimates as though each project may be a standalone project.

Aaron Palmer, P.E.

Vice President

Westbrook Associated Engineers, Inc.

619 E. Hoxie St., PO Box 429 Spring Green, WI 53588 Ph: (608) 588-7866 F: (608) 588-7954





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# WAE Scope (Bridge #3)

- 1) Perform an on-site condition inspection of the existing timber structure to determine components that need to be rehabilitated.
- 2) Perform a topographic survey of the existing bridge site.
- 3) Coordinate with WDNR for in-stream disturbance, removal of existing pier and placement of riprap at abutment. (It is assumed a Hydrology and Hydraulic Report will not be required.)
- 4) Coordinate with prefabricated manufacturer for timber longitudinal slab design and dimensions.
- 5) Provide IFC (Issued for Construction) plans and specifications for the timber rehabilitation and new timber slab span sealed by a State of Wisconsin Registered Professional Engineer.
- 6) WNDR permit fees are not included.
- 7) Wetland delineation is not included.
- 8) Provide construction administration and oversite.

# WAE FEE Based on 2025 Rates (Option 1 – no bidding included):

Design, Plans and Specs, Construction Administration and Oversite a Lump Sum = \$32,160

# WAE FEE Based on 2025 Rates (Option 2 – includes bidding documents and bidding phase):

Design, Plans and Specs, Bidding Documents & Bidding Phase, Construction Administration and Oversite a Lump Sum = \$37,740

\*Opinion of Probable Construction Costs:

Bridge #3: Construction Cost by Contractor = \$60,000

\*Wheeler quoted \$32,555 per bridge. Their cost for a single span slab structure may increase slightly due to thickness of the timbers. I would assume more like \$35,000 per bridge.

PROJECT: Cheese Country Trail Bridges Darlington, WI Lafayette County



Wheeler Lumber LLC Jake Silkey jsilkey@wheeler1892.com 262.229.4068

# Transverse Timber Deck Bridge

30' span x 13' clear (14' o/o) superstructure only, designed to 90# pedestrian load and a HS20 vehicle load. Transverse nail laminated deck panels with interlocking shiplap joints attaching to existing timber stringers. 42" horizontal railing with 6"x6" curbs and 6"x6" scuppers. Includes 2"x12" timber wear plank with attaching screws.

Trail Bridge #2: Lump Sum Total: \$32,555.00

Trail Bridge #3: Lump Sum Total: \$32,555.00

# Additional Notes:

- All timber to be Douglas Fir, pressure treated with Copper Naphthenate (QNAP) in Type A Hydrocarbon Solvent in accordance with AWPA P-36-22 and HSA-23 to meet AWPA UC4B & UC4C.
- All practical pre-framing to be done prior to treatment. Some field cutting and drilling may be required.
- All Douglas Fir to be graded per WCLIB Standard Grading Rules.
- Includes associated hardware. Hardware to be hot-dipped galvanized or coated to meet or exceed ASTM A153.
- Material certification may not be available for all hardware. Some items may not meet Buy America requirements.
- Does not include the cost of unloading and installation.
- The method and sequence of erection shall be the responsibility of others.
- 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.



### Bridges

From Dan Rielly <dan.rielly@lafayettecountywi.org>DateTue 4/15/2025 6:55 AMToMax Blackbourn <max.blackbourn@lafayettecountywi.org>

#### Hi Max

Est. on trail bridges

Bridge 2

Labor : \$45,000 Machinery : \$12,000 Demolition : \$10,000

Bridge 3

Labor : \$45,000 Machinery : \$12,000 Demolition : \$10,000

Bridge 18

Labor : \$67,500 Machinery : \$18,000 Demolition : \$15,000

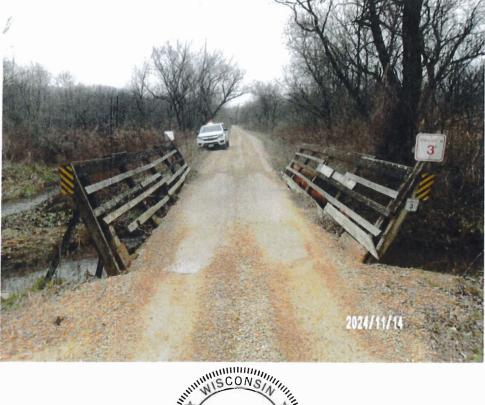
Bridge 48

Labor : \$90,000 Machinery : \$24,000 Demolition : \$20,000

Thanks Dan



# Structure Inspection Cheese Country Trail Bridge # 3





Bridge Inspector No. 9770

Inspection Date: November 14, 2024 Inspector: Colin Olson, P.E. Bridge Inspector No. 9770

Structure Deck Width: 14.0' Out-Out Structure Total Length: Back to Back of Abutments – 25.9' Location: 42.838948, -90.178220

# **Overall Comments**

Structure is a two span timber girder structure with floor stringers, a concrete deck and supported by timber abutments; it is in overall fair condition.

# <u>Elements</u>

Railing

 $\mathbf{r}$ 

Timber posts and cross members. Railings lean outward (likely designed this way). Warping but still appears sturdy. Some curb is gone. Some boards were replaced.

<u>Signs</u> North signs obscured and tipped. South tipped.

<u>Reinforced Concrete Deck</u> Fair condition. Some transverse cracking. Solid but edges are spalling off.

<u>Wearing Surface (Bare)</u> Fair condition. See Reinforced Concrete Deck.

<u>Timber Stringer (Transverse rail road ties)</u> Fair condition. Most are splitting but show no signs of distress.

<u>Timber Open Girder/Beam</u> Good Condition. Minor impact damage in the middle of spans.

<u>Timber Pier Cap</u> Fair condition. Splitting at ends.

<u>Timber Abutment</u> Good condition. Planking is tight.

Timber Wingwall Good condition. <u>Timber Pile</u> Good condition. Sound solid.

## Slope Protection

No slope protection visible. Upstream waterway is laterally migrating to the south; starting to move behind south abutment.

## Roadway Approaches

Settlement in wheel paths on both approaches.

# Recommended Maintenance

- Place gravel at approaches to fill in low areas.
- Clean out edge of deck to allow drainage off of bridge.
- Consider placing riprap along southwest streambank to stop stream migration.
- Consider adding riprap to north abutment.
- Straighten out tiger board signs and consider replacing bridge number sign.
- Remove debris it is blocking flow

<u>Structure NBI Ratings</u> Deck – 5 Superstructure – 6 Substructure - 6

# NBI Bridge Rating Scale

# 9 - Excellent condition

- 8 Very good condition, with no problems noted
- 7 Good condition, with some minor problems
- 6 Satisfactory condition, with some minor deterioration in structural elements

5 - Fair condition, with all primary structural elements sound but possibly minor cracking, corrosion, chipping, or scour

4 - Poor condition, with advanced corrosion, deterioration, cracking, or chipping, and significant erosion of concrete bridge piers

2 - Critical condition, with advanced deterioration of the deck, superstructure, or substructure, and possibly cracks in steel or concrete

1 – "imminent" failure condition – major deterioration or section loss present in critical structural components or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but with corrective action may be put back in light service.

0 – Failed condition – out of service – beyond corrective action



. 6

Figure 1 South Approach Looking North



Figure 2: North Approach looking South



Figure 3: Looking Upstream from Top of Deck



Figure 4: Looking Downstream from Top of Deck



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Figure 5: Profile Looking Downstream



Figure 6: Profile Looking Upstream



Figure 7: Deck Edge Starting to Spall Off



Figure 8: Typical Floor Beam Splitting



Figure 9: Typical Abutment



Figure 10: North Face of Pier



Figure 11: East End of Cap Split



Figure 12: Undermining at North Abutment



Figure 13: Stream Migrating Behind South Abutment



Figure 14: Debris at Upstream side



#### Fw: Cheese Trail Bridges

From Erica Sauer <erica.sauer@lafayettecountywi.org>
Date Tue 4/15/2025 11:33 AM
To Max Blackbourn <max.blackbourn@lafayettecountywi.org>

From: Wagner, Jonathan J - DNR <jonathanj.wagner@wisconsin.gov>
Sent: Tuesday, April 15, 2025 10:54:27 AM
To: Erica Sauer <erica.sauer@lafayettecountywi.org>
Subject: RE: Cheese Trail Bridges

Erica,

From a floodplain standpoint, there isn't anything that the work would require for repair or replacement in kind.

#### Jon Wagner

Water Management Engineer Phone: (608) 228-4935 jonathanj.wagner@wisconsin.gov

Our core values include professionalism, integrity, and customer service. Please visit our <u>survey</u> to provide feedback on your experience interacting with any DNR employee.

From: Erica Sauer <erica.sauer@lafayettecountywi.org> Sent: Monday, April 14, 2025 4:08 PM To: Wagner, Jonathan J - DNR <jonathanj.wagner@wisconsin.gov> Subject: Fw: Cheese Trail Bridges Importance: High

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 Jonathan-

This is a new one for me. Our trails department is looking to fix a few existing bridges on an old railroad corridor. The bridges would remain the existing size and in the existing location within Floodplain Zone A. Would this require a Floodplain Land Use Permit for a modification to an existing structure, or no? Thanks,

*Erica Sauer* Department Manager Lafayette County Land Conservation and Planning & Zoning Department Certified Crop Advisor | POWTS Inspector | Certified Soil Tester 700 Main Street Darlington, WI 53530 (608) 776-3836 | <u>erica.sauer@lafayettecountywi.org</u>



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Beidge #3

# **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.

equested on application encountry of substantiate your points, including dotter decoud cubernerite.	Possible	Actual
Category	Points	Points
1 Condition of the Structure (max of 10 points)		
Has a certified bridge inspection report that supports the project & demonstrates need (see	e 10	
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	
Permit in hand / Bridge already permitted	3	
3 Funding (maximum points 2) Are other funds already committed?		
50% or greater from other funding source(s)? 50% ATV	2	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	5
10 or more year <b>deeded easement</b> on private land or other public land, for all portions of	2 5	
that trail to the nearest road on each side of the bridge		_
3-9 year deeded easement on private land or other public land, for all portions of that	4	
trail to the nearest road on each side of the bridge		-
10 or more year deeded easement on private land or other public land, for just the bridge	2 3	
site		-
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	1	
land		-
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:	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		18

Comments/Notes: