

#27 Vilas Co Plum Creek Bridge #11

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 12/18)

Page 1 of 5

Due Date: April 15

- ATV/UTV Trail Aid
- Snowmobile Trail Aid
- Motorized Stewardship - 20% County match required

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 Open 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			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input checked="" type="checkbox"/> Select if the same as applicant.		
Vilas County Parks and Recreation					
Individual Authorized to Act on Behalf of Applicant per Resolution			Check Recipient Name (Name to Appear on Check)		
Todd Bierman					
Title			Title		
Park and Recreation Supervisor					
Address			Address		
330 Court Street					
City	State	ZIP Code	City	State	ZIP Code
Eagle River	WI	54521			
Telephone Number		Email Address			
(715) 479-5160		tobier@vilascountywi.gov			

Section 2: Project Information Required for all Projects						
Project Title					Current Funded Miles	New Miles (if applicable)
Plum Creek Bridge 11					501	
County	Township	Range	Section	1/4 1/4	1/4	GPS Coordinates:
Vilas	40 N	8	18			Lat. 45.944843 Long. -89.541052

Project Description Summary
Vilas County is proposing to replace the Plum Creek Bridge in St. Germain. This bridge has been inspected and was found to have a rotting piling with the others not to far behind. A new bridge would clear span the creek with no pilings in the stream bed like the current bridge has. replacing the 1 piling is an option but there is the fear of the remaining 3 pilings to rot and become unsafe in the next couple of years Maintenance of this trail will be done by the Boulder Junction Snowmobile Club with AAA-2 grooming equipment.

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

Estimated Cost						
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
			\$168,300.00			\$168,300.00
Leave Blank – DNR Use Only						

Applicant Certification	
Printed Name of Authorized Official	Official's Title
Todd Bierman	Vilas County Parks and Recreation Supervisor

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

4/5/2023
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 Vilas	Township 40 N	Range 8	Section 18	1/4 1/4 1/4	GPS Coordinates: Lat. 45.944843 Long. -89.541052
Water Body Name Plum Creek			Bridge Name Plum Creek Bridge		County Inventory Number 11
Funded Trail Name or Number (SNARS if applicable) Vilas County trail 70			Has this bridge site ever received development or rehabilitation funds in the past? <input checked="" type="radio"/> Yes <input type="radio"/> No Year: 2000 \$ 35,725.00		
Bridge is located on: <input type="radio"/> Private property <input checked="" type="radio"/> Public property			Old Bridge/Culvert Size 12'x68'		New Bridge/Culvert Size 12'x74'
Landowner Where Bridge is Located State of Wisconsin			Telephone Number (715) 365-3490	Length of Trail Use Agreement (5 year minimum) 5	
Current maximum load 19,000 lbs.		Age of Bridge 23	Bridge Material Wood		
Proposed maximum load 25,000 lbs.					
Sponsoring Club Name St. Germain Bo-Boen's			Club Contact Roger Klien	Telephone Number (715) 477-8570	
Do you have your trail bridges posted as to maximum load? <input checked="" type="radio"/> Yes <input type="radio"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge? 25000		
What is the weight of your puller & drag/grading equipment? 22000					
What other recreational trail uses are planned for this bridge? None at this time.					
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

Vilas county is proposing to replace an existing bridge on funded Vilas County Trail 70 in the Town of St. Germain. The current bridge is 23 years old and has 1 piling that is rotting with the remaining 3 not to far behind. The current bridge is rated for 19,000 pounds and is inadequate for the St. Germain Bo-Boen grooming equipment. Currently the pilings are in the creek bed. The new bridge would span the creek with no pilings. Another option would be to just replace the bad piling and some re-decking but, it is the general opinon of the manufactures and contractors who have looked at this project, to replace due to the fact that before 10 years, the remaining pilings will need replaced.

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>12'x75'</u>	<u>12'x75'</u>
Bridge Manufacturer:		<u>Eby's Portable Welding & Fabrication</u>	<u>Custom Manufacturing, Inc.</u>
Design Weight Load		<u>25,000 lbs.</u>	<u>25,000 lbs.</u>
Cost of Structure:	1. Engineering	\$ <u>1,000</u>	\$ <u>2,800</u>
	2. Structure	\$ <u>121,500</u>	\$ <u>110,800</u>
	Subtotal	\$ <u>122,500</u>	\$ <u>113,600</u>
		Quote 1	Quote 2
		<input checked="" type="radio"/> Contractor or <input type="radio"/> Sponsor Estimate	<input type="radio"/> Contractor or <input type="radio"/> Sponsor Estimate
Installation Costs:			
1. Engineering	\$ <u>1,000</u>	\$ <u>1,000</u>	
2. Site Preparation	\$ <u>8,000</u>	\$ <u>8,000</u>	
3. Abutments	\$ <u>10,500</u>	\$ <u>10,500</u>	
4. Pilings/Piers	\$ _____	\$ _____	
5. Approaches	\$ <u>4,000</u>	\$ <u>4,000</u>	
6. Riprap	\$ _____	\$ <u>5,000</u>	
7. Labor	\$ <u>15,000</u>	\$ <u>14,200</u>	
8. Equipment Rental	\$ <u>10,000</u>	\$ <u>6,000</u>	
9. Culverts	\$ _____	\$ _____	
10. H & H Study	\$ _____	\$ _____	
11. Wetland Delineation	\$ <u>6,000</u>	\$ <u>6,000</u>	
12. Other _____	\$ _____	\$ _____	
Subtotal	\$ <u>54,500</u>	\$ <u>54,700</u>	
Total Cost	\$ <u>177,000</u>	\$ <u>168,300</u>	

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

Entire Deck and Railing Projects		<input type="radio"/> Contractor	<input type="radio"/> Sponsor	<input type="radio"/> Club
Bridge Dimensions:	_____			
Design Weight Load	_____ lbs.			
1. Materials	\$ _____			
2. Labor	\$ _____			
Total	\$ <u>0</u>			



Custom Manufacturing, Inc.

606 Delco Drive, P.O. Box 279

Clinton, WI 53525

608-676-2282 Fax: 608-676-2283

tina@custommfginc.com

Quotation

6236

Please Indicate The Above Number When Ordering

Date: April 4, 2023	Salesperson: Tina Forrest
Inquiry Date:	Inquiry Number

To: Vilas County Forestry, Recreation
and Land Department
330 Court Street
Eagle River, WI 54521

Estimated Ship Date	Shipped VIA	F.O.B	Terms	
8 - 12 weeks	Best way	Clinton, WI	Net 30	
	Description		Price	Total
1	<p>2023 GRANT APPLICATION ESTIMATE Plum Creek</p> <p>75' Arched Bridge x 12' Wide - 25,000# Load Double Decked - 42" Horizontal Railing - Hardware On 2 sets of Galvanized Riser Pans</p> <p>Stamped Engineered Drawings 2,800.00 Removal & Disposal Existing Bridge 5,200.00 Installation 13,200.00 Equipment Rental 3,000.00 Delivery Charges 1,200.00</p> <p>Total \$133,400.00</p> <p>Above prices do not include sales tax or any necessary permits.</p> <p>Bridge kit includes all Steel I-Beams and Crossmembers, which are predrilled and have a red oxide primer finish, MCA Southern Yellow Pine treated lumber and all hardware. All lumber is Pre Stained.</p> <p>Bridge Kit Meets - WI DNR Guidelines - 25,000# Load</p>	\$ 108,000.00		

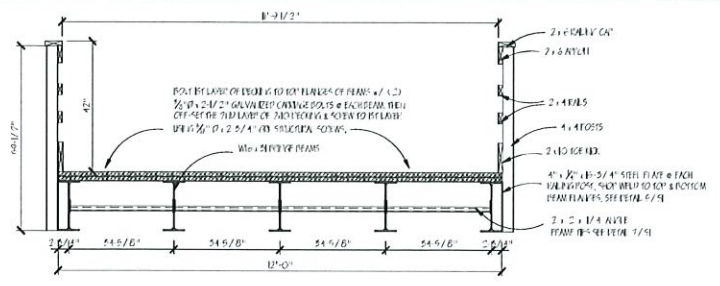
We are pleased to submit the above quotation for your consideration. Should you place an order, be assured it will receive our prompt attention. This quotation is valid for 30 days. Thereafter it is subject to change without notice.

BY: Tina Forrest

ACCEPTED: _____

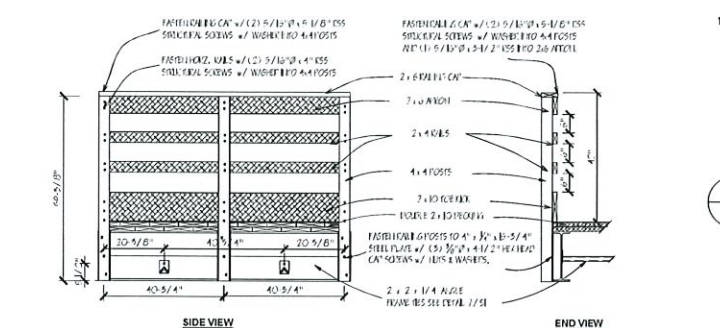
DATE: _____

Reference Only *

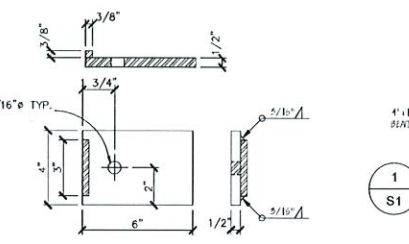


3 BRIDGE CROSS SECTION
SCALE: 1/2"=1'-0"

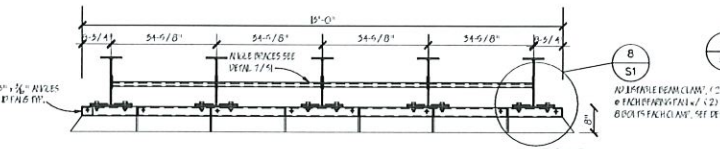
NOTES
1. FINAL BRIDGE CENTERLINE LOCATION & FOUNDATION ELEVATIONS ARE TO BE LOCATED BY OTHERS AND VERIFIED IN THE FIELD WITH DANE COUNTY FLOOD TO SCALE TO BRIDGE ELEVATION.
2. THE CONTRACTOR SHALL PROVIDE 10" WIDE FILTER FABRIC & STONE AT BANK PROTECTION @ SIDES & FRONT OF ABUTMENTS PER THE DOT SPECIFICATIONS SECTION 605.03 AS APPROVED BY DANE COUNTY.
3. ALL ASPECTS OF CONSTRUCTION FOR THE BRIDGE SHALL MEET THE REQUIREMENTS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION. THE BRIDGE ELEVATION SHALL BE SET FOR A MINIMUM CLEARANCE OF 15'-0" ABOVE THE ORDINARY HIGH WATER MARK, OR 1'-0" ABOVE THE 100 YEAR FLOOD ELEVATION, OR AS DIRECTED BY DANE COUNTY TO COMPLY WITH WISCONSIN DOT REQUIREMENTS.



4 RAILING ELEVATION & SECTION
SCALE: 1/2"=1'-0"



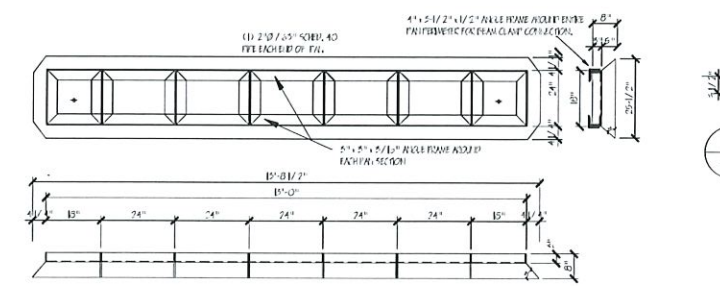
8 BEAM CLAMP
SCALE: 3"=1'-0"



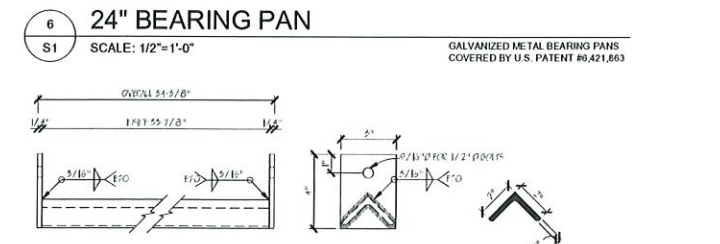
5 24" BEARING PAN END VIEW
SCALE: 1/2"=1'-0"



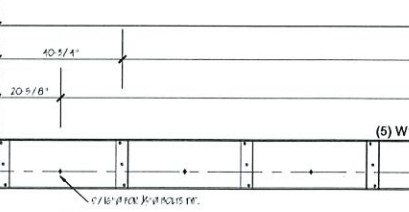
9 HANDRAIL POST PLATES
SCALE: 1"=1'-0"



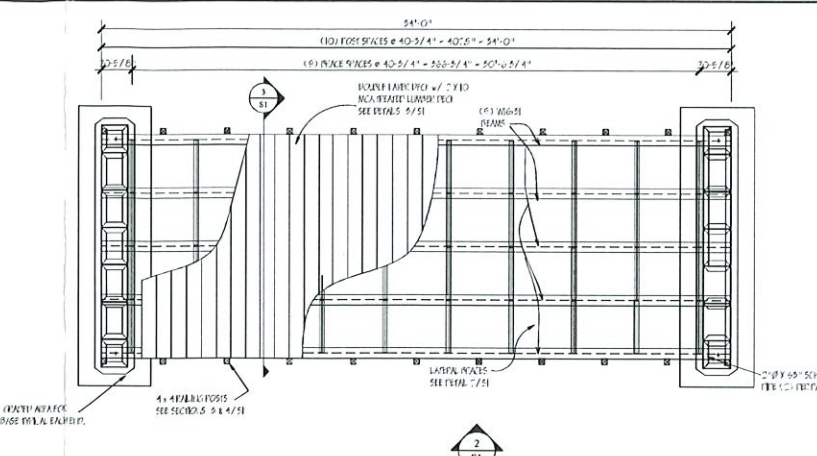
6 24" BEARING PAN
SCALE: 1/2"=1'-0"



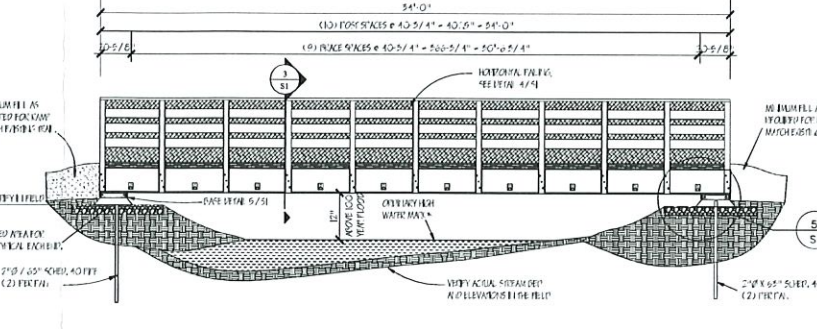
7 FRAME BRACES
SCALE: 3"=1'-0"



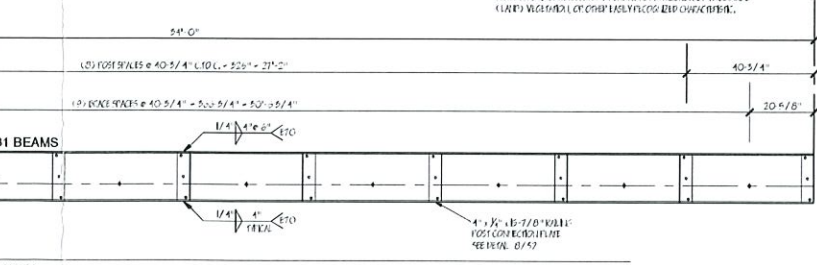
10 BEAM LAYOUTS
SCALE: 1/2"=1'-0"



1 PLAN VIEW
SCALE: 1/4"=1'-0"



2 ELEVATION
SCALE: 1/4"=1'-0"



11 BEAM BEARING DETAIL
SCALE: 1"=1'-0"

NO.	DESCRIPTION	DATE	BY
1	FOR FABRICATOR'S REVIEW OF WALLS & FRAMING LAYOUT.	12/20/21	JFH

NOTES

GENERAL NOTES:

- THIS BRIDGE IS DESIGNED ON THE BASIS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN SPECIFICATIONS FOR BRIDGE AND REPLACEMENT FACILITIES AND ALL TERRAIN VERTICAL ELEVATIONS, PUBLICATION PUB. 600.001 WITH THE FOLLOWING:
 - DESIGN LOADS:
 - DEAD LOAD ON BRIDGE: 88 PSF
 - DEAD LOAD SUPPORTED BY BRIDGE: 142 PSF
 - LIVE LOAD ON ENTIRE DECK: 600 PSF
 - LIVE LOAD ON ENTIRE DECK: 300 PSF
 - SNOW LOAD: 600 PSF
 - WIND LOAD: 800 MPH
 - VEHICLE LOAD: 25,000 LBS
 - LOAD COMBINATIONS:
 - LC1 = DL + 0.5(LL1 + SL)
 - LC2 = DL + 0.5(LL2 + SL)
- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS OR METHODS OR FOR SUPERVISION OF CONSTRUCTION.
- ALL DIMENSIONS ARE TO BE CHECKED WITH EXISTING FIELD DIMENSIONS AND APPROVED SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS. ALL DIMENSIONAL DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL WORK IS TO BE PERFORMED IN A SAFE AND WORKMANLIKE MANNER IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ALL STATE OF WISCONSIN AND DANE COUNTY BUILDING CODES AND ZONING ORDINANCES AS THEY MAY PERTAIN TO THIS PROJECT.

SITE WORK:

- THE CONTRACTOR IS TO VERIFY ALL CONDITIONS AT THE SITE, PARTICULARLY THE LOCATION OF ANY UNDERGROUND UTILITIES BEFORE EXCAVATION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED NET SOIL BEARING CAPACITY OF 4,000 PSF.
- THE BEARING ELEVATION OF THE BRIDGE SHALL BE SET BY THE BRIDGE OWNER AT AN ELEVATION SUCH THAT THE MINIMUM BOTTOM CHORD ELEVATION OF THE BRIDGE SHALL BE AT LEAST 6" ABOVE ORDINARY HIGH WATER MARK, OR AS DETERMINED BY DANE COUNTY DEPARTMENT OF PUBLIC WORKS OR THE WISCONSIN DNR.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL USED IN THE FABRICATION AND ERECTION OF THIS BRIDGE SHALL MEET ASTM A36 GRADE 50 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.
- FASTENERS USED IN THE FABRICATION AND ERECTION OF THIS BRIDGE SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS: SAE HEAVY HEX SAE J429 GRADE 5 AND A307 FOR THEIR RESPECTIVE USES. FASTENERS AND CONNECTORS IN CONTACT WITH TREATED LUMBER SHALL BE HOT-DIP GALVANIZED. DECK SCREWS SHALL BE ERODENT 88-3 DECK MATE SQUARE DRIVE BY PHILLIPS FASTENER PRODUCTS CO.
- WELDING, WHEN REQUIRED, SHALL MEET THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE.
- ALL STRUCTURAL STEEL SHALL BE PRIME PAINTED AFTER FABRICATION WITH A MINIMUM THICKNESS OF 1/4" OF SHERWIN WILLIAMS TYP-10 RUST INHIBITING AND ALKALY RESISTANT PRIMER.
- ALL STRUCTURAL STEEL SHALL BE FINISHED PAINTED AFTER FABRICATION, BUT PRIOR TO ASSEMBLY, WITH TWO (2) COATS OF SHERWIN WILLIAMS INDUSTRIAL ENAMEL VOC-CURRYING OIL-BASED ENAMEL PAINT IN A GLOSS FINISH. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATION, PRIME PAINTING AND FINISH PAINTING. COLOR TO BE SELECTED BY THE OWNER FROM MANUFACTURER'S STANDARD COLOR CHARTS.

DIMENSION LUMBER:

- ALL STRUCTURAL DIMENSION LUMBER INSTALLED IN THIS PROJECT SHALL MEET THE REQUIREMENTS OF THE 2018 NATIONAL SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) AND SHALL BE STAMPED WITH A MINIMUM EQUIVALENT GRADE OF 2400R S4S, SOUTHERN PINE OR SPRUCE PINE FIR SPECIES.
- ALL WOOD USED IN THIS BRIDGE SHALL BE WYONIZED COPPER AZOLE (CCA) PRESERVATIVE TREATED TO A MINIMUM RETENTION OF 600 POUNDS PER CUBIC FOOT FOR ABOVE GROUND LUMBER AND 180 POUNDS PER CUBIC FOOT FOR LUMBER IN GROUND CONTACT. PER THE CHEMICAL MANUFACTURER'S INSTRUCTIONS.
- THE MOISTURE CONTENT OF ALL STRUCTURAL FRAMING LUMBER, PLYWOOD AND FABRICATED WOOD PRODUCTS SHALL NOT EXCEED 18% AT THE TIME OF INSTALLATION. JOIST BRACING OF ALL WOOD PRODUCTS SHALL PROTECT WOOD MATERIALS FROM DAMAGE DUE TO THE ELEMENTS. NO WARPED LUMBER SHALL BE USED IN THE CONSTRUCTION OF THE BRIDGE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING DURING HANDLING AND ERECTION OF THE BRIDGE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL FINAL BRACING, AS SHOWN ON THE SHOP DRAWINGS.

PROJECT: 34' x 12' SNOWMOBILE BRIDGE #17
BREWERY DITCH, 218 RAILROAD ST.,
NEW GLARUS, DANE COUNTY, WI

CLIENT: JAMES F. HEIDT, PE, LLC
CIVIL & STRUCTURAL ENGINEERING
345 LAUNDALDE DR., BELLEVUE, WISCONSIN 53511
PHONE: 608-776-2282
FAX: 608-776-2283
EMAIL: james@jfh-engineering.com

Steel Fabricating & Finishing
606 DuSoy Drive
P.O. Box 279
Clinton, Wisconsin 53523
Phone: 608-776-2282
Fax: 608-776-2283

CUSTOM MANUFACTURING INC.

DRAWN: JFH
DATE: 12/20/21
SCALE: AS SHOWN
JOB NO: 21172
SHEET NO.
S1

SEAL: JAMES F. HEIDT, PE
WI REG. 15480
EXP. DATE: 07/31/2022

Appendix A (continued)

Summarize Costs in Appropriate Categories:

PLUM CREEK BRIDGE

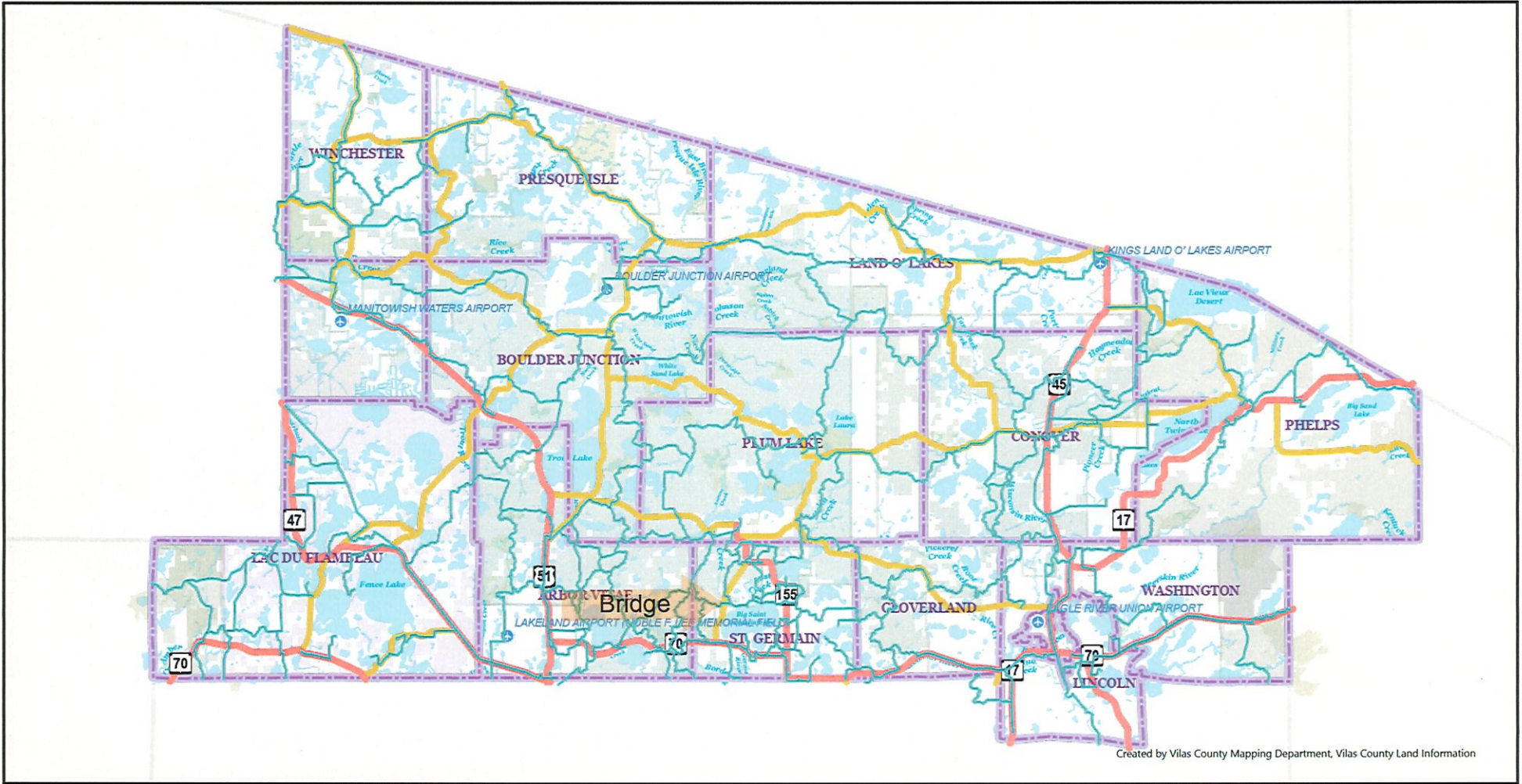
		Bridge Structure	
		Quote 1	Quote 2
		<input checked="" type="radio"/> Steel <input type="radio"/> Wooden	<input type="radio"/> Steel <input type="radio"/> Wooden
Bridge Dimensions:		<u>60x12</u>	_____
Bridge Manufacturer:		<u>EBYS PORTABLE WELDING + FABRICATION</u>	_____
Design Weight Load		_____ lbs.	_____ lbs.
Cost of Structure:	1. Engineering	\$ <u>1000.00</u>	\$ _____
	2. Structure	\$ <u>117,500.00</u>	\$ _____
	Subtotal	\$ <u>118,500.00</u>	\$ _____

		Quote 1	Quote 2
		<input checked="" type="radio"/> Contractor or <input type="radio"/> Sponsor	<input type="radio"/> Contractor or <input type="radio"/> Sponsor
		Estimate	Estimate
Installation Costs:	1. Engineering	\$ <u>1000.00</u>	\$ _____
	2. Site Preparation	\$ <u>8000.00</u>	\$ _____
	3. Abutments	\$ <u>10,500.00</u>	\$ _____
	4. Pilings/Piers	\$ _____	\$ _____
	5. Approaches	\$ <u>4,000.00</u>	\$ _____
	6. Riprap	\$ _____	\$ _____
	7. Labor	\$ <u>15,000.00</u>	\$ _____
	8. Equipment Rental	\$ <u>10,000.00</u>	\$ _____
	9. Culverts	\$ _____	\$ _____
	10. H & H Study	\$ _____	\$ _____
	11. Wetland Delineation	\$ _____	\$ _____
	12. Other _____	\$ _____	\$ _____
	Subtotal	\$ <u>48,500.00</u>	\$ _____
	Total Cost	\$ <u>167,000.00</u>	\$ _____

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

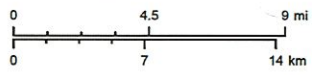
Entire Deck and Railing Projects		<input type="radio"/> Contractor	<input type="radio"/> Sponsor	<input type="radio"/> Club
Bridge Dimensions:	_____			
Design Weight Load	_____ lbs.			
1. Materials	\$ _____			
2. Labor	\$ _____			
	Total	\$ _____		

Vilas County Snowmobile Trails/Plum Creek Bridge 11



Created by Vilas County Mapping Department, Vilas County Land Information

Scale: 1:253,440



Vilas County Online Mapping

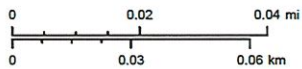
Created 4/4/2023 3:26 PM
 This map is provided courtesy of Vilas County and is to be used for reference purposes only. Vilas County makes every effort to produce and publish the most accurate and current information possible. No warranties, expressed or implied, are provided for the data provided, its use, or its interpretation. Vilas County does not guarantee the accuracy of the material contained herein and is not responsible for any misuse or misrepresentation of this information or its derivatives.
 This map does not represent a survey.

- | | | | |
|--------------------------------|-------------------------|------------------|----------------|
| Snowmobile Trails (Level 8-10) | Funded Snowmobile Trail | Highways | County Highway |
| Primary Type | Club Snowmobile Trail | Type | Airport |
| Corridor Snowmobile Trail | Town/City Boundary | US/State Highway | |

Plum creek Bridge 11 aerial



Scale: 1:1,200



Vilas County Online Mapping

Created 4/4/2023 2:19 PM
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 This map does not represent a survey.

Snowmobile Trails

- Type
- Corridor Snowmobile Trail
 - Funded Snowmobile Trail
 - Club Snowmobile Trail

Camping

- Type
- Campground
 - Canoe Campsite
 - Wilderness Campsite

Silent Sport Trail System Markers

- Type of Facility
- Land Trail
 - Hard-Surface Trail
 - Route
 - Paddling Route

TINS

- Parcel Boundary
- Tax Parcel Sub Lines
- Boundary Line
- Right of Way Line
- Source or Lot Line

Moander Line

- Natural Feature
- Owner Last Name Only
- Minor Roads
- Service Road

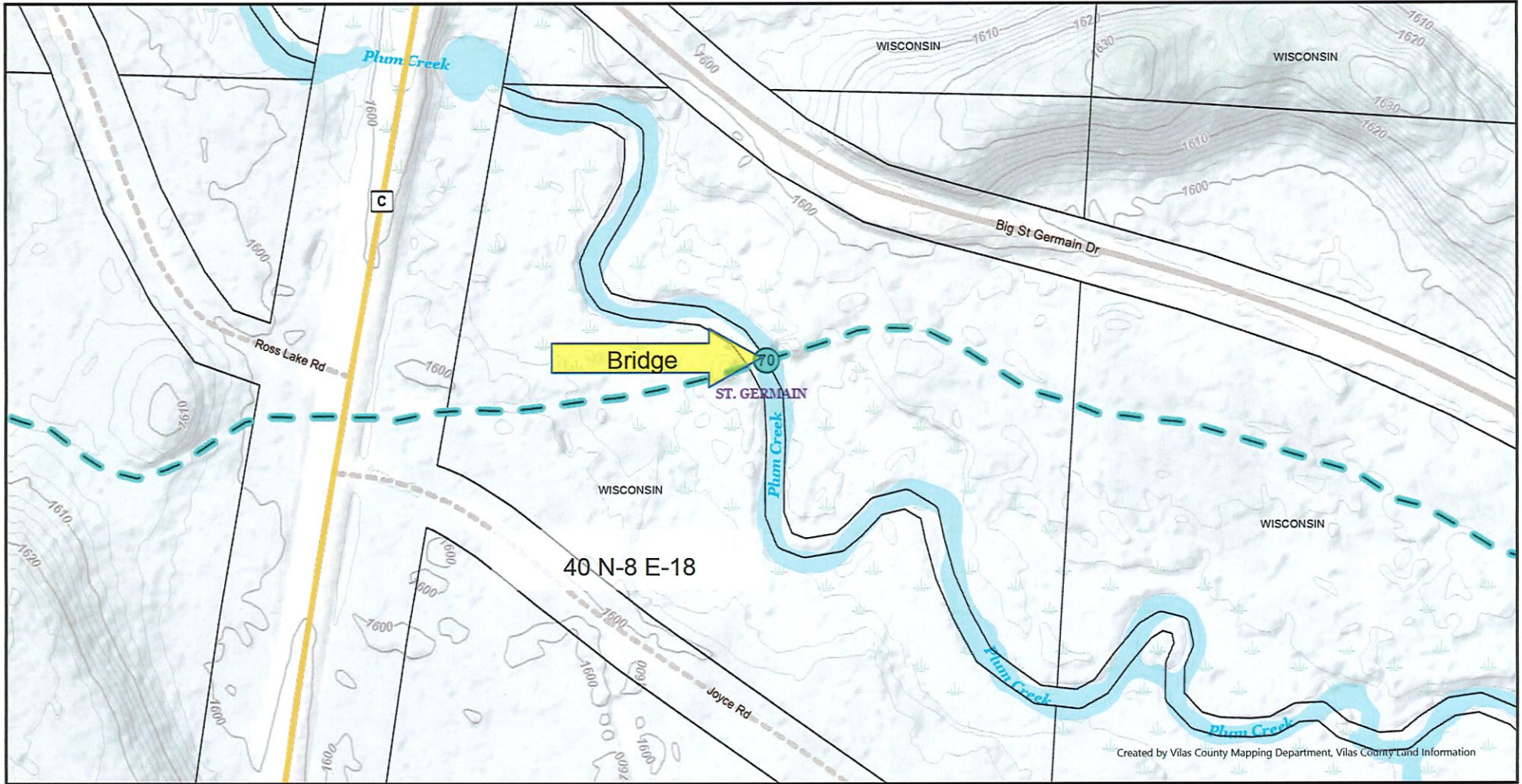
4WD Road

- Runway
- Major Roads
- Collector Road
- Local Road
- Resource Road

Highways

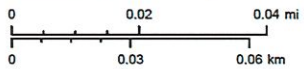
- Type
- US/State Highway
 - County Highway
- Water Access
- Feature Code
- Boat Ramp

Plum Creek Bridge 11 Topo



Created by Vilas County Mapping Department, Vilas County Land Information

Scale: 1:1,200



Vilas County Online Mapping

Created 4/4/2023 3:21 PM
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 This map does not represent a survey.

Snowmobile Trails

- Primary Type
- Corridor Snowmobile Trail
 - - - Funded Snowmobile Trail
 - · - · - Club Snowmobile Trail

Camping

- Type
- Campground
 - Canoe Campsite
 - Wilderness Campsite

Silent Sport Trail System Markers

- Type of Facility
- Land Trail
 - Hard-Surface Trail
 - Route
 - Paddling Route

TINS

- Type
- Parcel Boundary
 - Tax Parcel Sub Lines
 - Boundary Line
 - Right of Way Line
 - Source or Lot Line

Moandor Line

- Type
- Natural Feature
 - Owner Last Name Only
 - Town/City Boundary
 - Minor Roads
 - Service Road

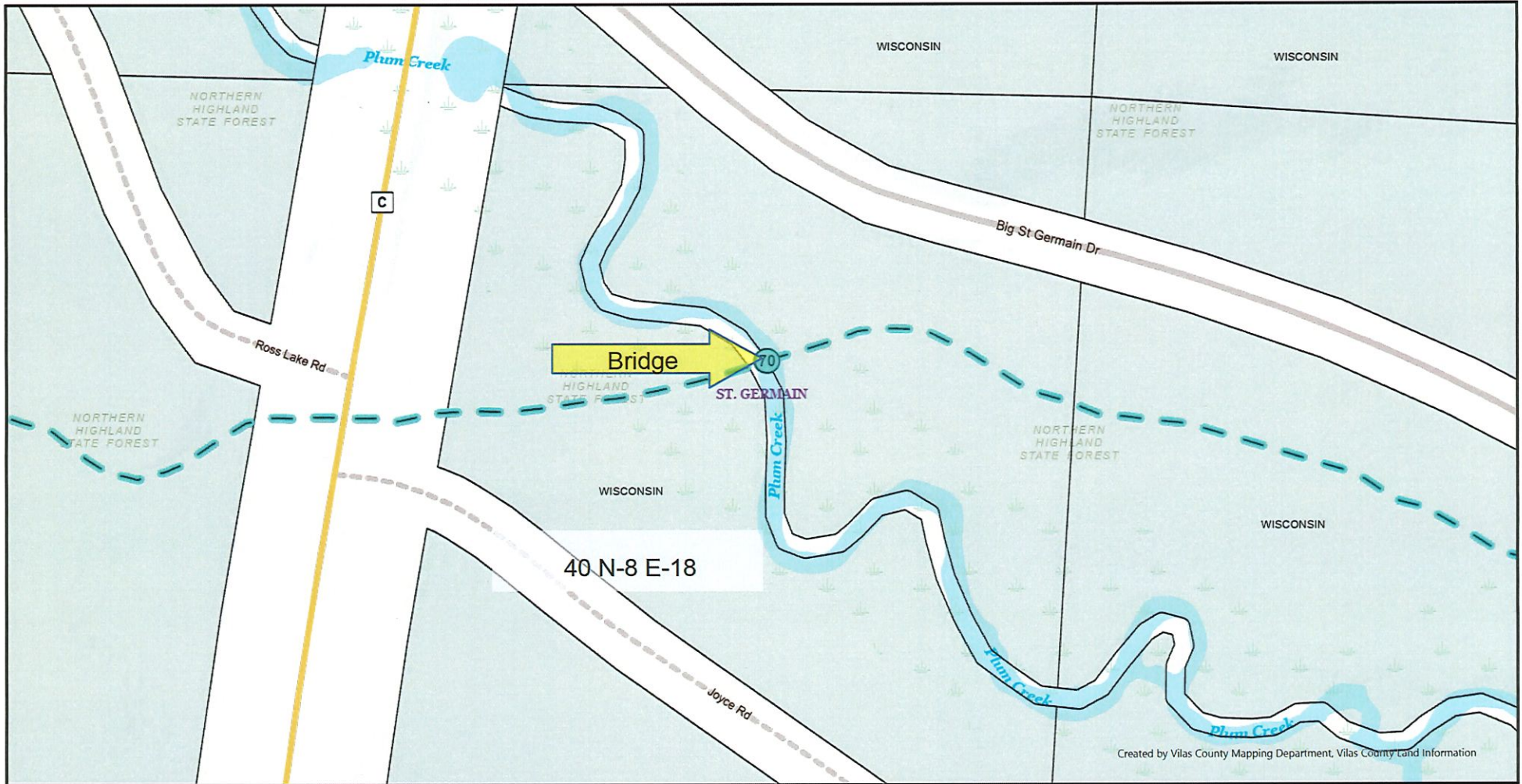
4WD Road

- Type
- Runway
 - Major Roads
 - Collector Road
 - Local Road
 - Resource Road

Highways

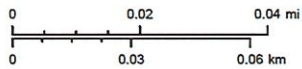
- Type
- US/State Highway
 - County Highway
 - Water Access
 - Feature Code
 - Boat Ramp

Plum Creek Bridge 11 Plat



Created by Vilas County Mapping Department, Vilas County Land Information

Scale: 1:1,200



Vilas County Online Mapping

Created 4/4/2023 2:22 PM
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 This map does not represent a survey.

Snowmobile Trails		Camping		Silent Sport Trail System Markers		TINS		Meander Line		Highways	
Primary Type	Type	Type	Type	Type of Facility	Type	Type	Type	Type	Type	Type	Type
Corridor Snowmobile Trail	▲	Campground	▲	Land Trail	□	Parcel Boundary	□	Natural Feature	—	US/State Highway	—
Funded Snowmobile Trail	■	Canoe Campsite	▲	Hard-Surface Trail	□	Tax Parcel Sub Lines	□	Owner Last Name Only	—	County Highway	—
Club Snowmobile Trail	■	Wilderness Campsite	▲	Route	□	Boundary Line	□	Minor Roads	—	Water Access	—
				Paddling Route	□	Right of Way Line	□	Town/City Boundary	—	Feature Code	—
						Source or Lot Line	□	Service Road	—	Boat Ramp	—
								4WD Road	—		
								Runway	—		
								Major Roads	—		
								Collector Road	—		
								Local Road	—		
								Resource Road	—		



Surface Water Data Viewer Map



Legend

- Wetland Class Areas
- Wetland Class Points**
- Dammed pond
- Excavated pond
- Filled/draind wetland
- Wetland too small to delineate
- Filled excavated pond
- Filled Points
- Wetland Class Areas
- Filled Areas
- Wetland Identifications and Confirmations
- Railroads

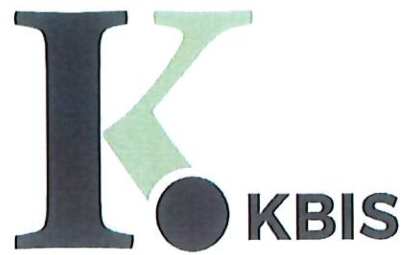
0.1 0 0.03 0.1
 Miles

1:1,980

NAD_1983_HARN_Wisconsin_TM

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Notes



Trail Bridge Inspection

Vilas County

Bridge Name

Vilas 11

Inspected By:

William S. Knaack Jr., P.E.

William S Knaack Sr.

10/24/2022

Prepared By

KBIS, LLC



Bridge # 11



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

Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. William S Knaack Jr., P.E., is Program Manager, Team Leader, Fracture Critical Inspector, and Underwater Inspector qualified. William S Knaack Sr, is Program Manager, Team Leader qualified.

The bridge was inspected with trail use in mind, using normal vehicle bridge standard 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.

KBIS, recommends as a minimum that bridge owners load rate all the structures in their inventory and post a single ton sign at each bridge. It is a "insurance" policy for the owner if the bridge is damaged by a user that should not be using the structure. Also, grooming/trail equipment is getting large every year, so bridges again should be rated.

Location information/General Description:

Lat and Long: 45.944843, -89.541052

Bridge Condition

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

16 LF of CS3 planks at the end need to be replaced.

Rest of the surface CS2.

Object markers, West 2 are map cracked, East 2 are map cracked and NE minor damage.

Bridge Ahead, East CS2 minor damage and map cracked. West CS3 map cracked, no reflectivity.

Both approaches have CS4 drops of 6+inches.

Girders have minor CS2 decay.

Pile Bent has 6 piles with CS3 decay and section loss.

Remaining components are CS1.



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Bridge Inspection Report

Report Summary

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

Deck	# 6
Superstructure	# 6
Substructure	# 4
Channel	# 8

Overall Condition Poor

Recommendations/Maintenance Items:

****Keep the deck and superstructure and plan to replace the pier as soon as it can be planned and funded. This bridge should be inspected every 24 months or less. The bent should have diagonal bracing on it.

Fill the approaches in.
Replace West bridge ahead sign.

Signed By:

William S. Knaack Jr.,P.E.

10/24/2022

Date

Bridge Inspection Report

Photo Observations



East Bridge Ahead sign.

Bridge Inspection Report

Photo Observations



Looking North

Bridge Inspection Report

Photo Observations



East abutment.

Bridge Inspection Report

Photo Observations



CS3 Timber pile decay. Measurable section loss.

Bridge Inspection Report

Photo Observations



West Bridge Ahead sign, CS3 map cracked and no reflectivity.

Bridge Inspection Report

Photo Observations



CS3 approach

Bridge Inspection Report

Photo Observations



Looking East.

