

## #30 Douglas Pokegama River Bridge

State of Wisconsin  
 Department of Natural Resources  
[dnr.wi.gov](http://dnr.wi.gov)

### Motorized Recreation Grant Application

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

Form 8700-159 (R 04/22)

Page 1 of 5

**Due Date: April 15**

- ATV/UTV 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 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 Douglas County Forestry				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 Clint Meyer				Check Recipient Name (Name to Appear on Check) Clint Meyer			
Title Park and Recreation Supervisor				Title Park and Recreation Supervisor			
Address PO Box 211				Address PO Box 211			
City Solon Springs		State WI	ZIP Code 54873	City Solon Springs		State WI	ZIP Code 54873
Telephone Number (715) 378-2219			Email Address clint.meyer@douglascountywi.org				

#### Section 2: Project Information Required for all Projects

Project Title Douglas County Trail 2 105 and Pokegama Bridge					Current Funded Miles		New Miles (if applicable)	
County Douglas	Township 48 N	Range 14	Section 4	¼ ¼ NW	¼ SE	GPS Coordinates: Lat. _____ Long. _____		

#### Project Description Summary

Douglas County proposes to construct a new bridge on trail 2 over the Pokegama River. The trail currently uses the Hwy 105 bridge to cross the river. On the east side of the river there is a blind hill that makes this an unsafe approach for riders and especially groomers. The installation of a designated recreation bridge would provide a much safer crossing of the river for snowmobile, WATV/UTV, and Groomers.

This Request is being split 50/50 between Snowmobile(\$156,650.00) and Winter ATV(\$156,650.00) For a total of (\$313,300.00)

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

#### Estimated Cost

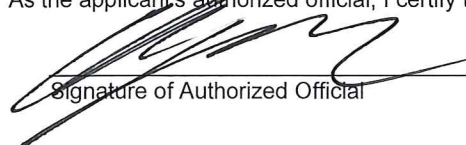
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$313,300.00		\$313,300.00

Leave Blank – DNR Use Only

#### Applicant Certification

Printed Name of Authorized Official Clint Meyer	Official's Title Park and Recreation Supervisor
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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

4-13-2023  
 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 Douglas	Township 48 N	Range 14	Section $\frac{1}{4}$ $\frac{1}{4}$ 4    NW	$\frac{1}{4}$ SE	GPS Coordinates: Lat. Long.
Water Body Name Pokegana River			Bridge Name		County Inventory Number
Funded Trail Name or Number (SNARS if applicable) #2			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 _____ New Bridge/Culvert Size 140 feet		
Landowner Where Bridge is Located Wi DOT			Telephone Number	Length of Trail Use Agreement (5 year minimum)	
Current maximum load _____ lbs.		Age of Bridge	Bridge Material		
Proposed maximum load 25,000 lbs.					
Sponsoring Club Name Drift Dodgers Snowmobile Club			Club Contact Brian Conley	Telephone Number (715) 399-8611	
Do you have your trail bridges posted as to maximum load? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge? 14000		
What is the weight of your puller & drag/grading equipment? 13000					
What other recreational trail uses are planned for this bridge? Snowmobile, WATV/UTV, maybe Summer ATV/UTV in the future					
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 Plan is to construct the approaches and the concrete abutments during the summer months and the steele bridge structure with wood deck would be placed in the winter once the trail and river are frozen. This will allow the bridge to be placed without shutting down highway 105. The contractor will also be able to utilize 2 semi wrecker trucks instead of cranes saving a significant amount of money in placing the bridge.

**Appendix A (continued)**

**Summarize Costs in Appropriate Categories:**

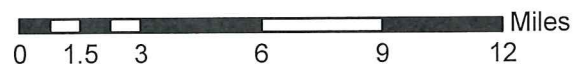
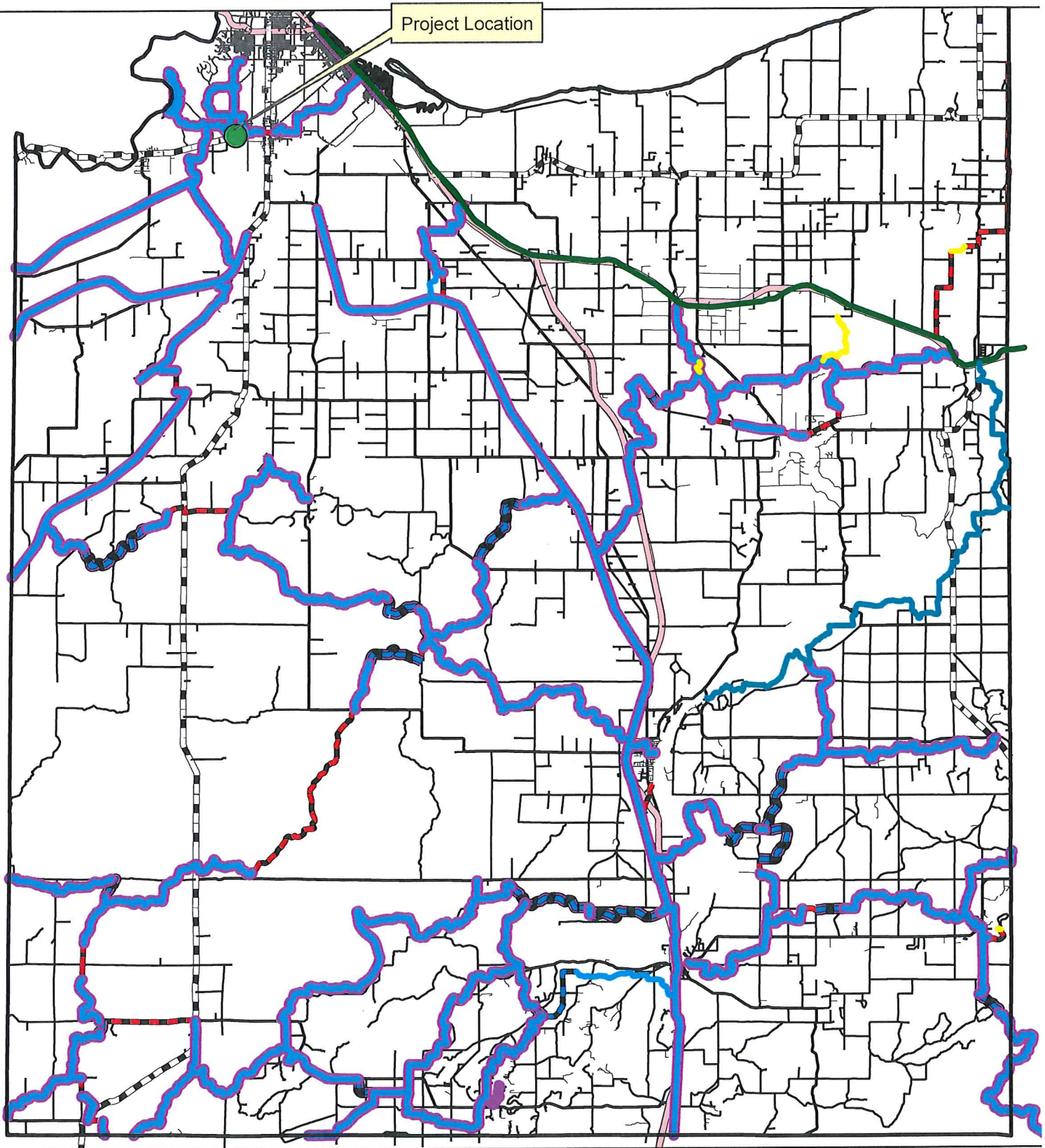
Bridge Structure			
		Quote 1	Quote 2
		<input checked="" type="radio"/> Steel <input type="radio"/> Wooden	<input checked="" type="radio"/> Steel <input type="radio"/> Wooden
Bridge Dimensions:		12'X140'	12'140'
Bridge Manufacturer:		Northwood Bridge	Anderson Bridge
Design Weight Load		25,000 lbs.	25,000 lbs.
Cost of Structure:	1. Engineering	\$ 15,000	\$ 20,000
	2. Structure	\$ 205,000	\$ 250,000
	<b>Subtotal</b>	<b>\$ 220,000</b>	<b>\$ 270,000</b>
		Quote 1	Quote 2
		<input checked="" type="radio"/> Contractor   or <input type="radio"/> Sponsor Estimate	<input checked="" type="radio"/> Contractor   or <input type="radio"/> Sponsor Estimate
<b>Installation Costs:</b>			
1. Engineering		\$ 47,000	\$ 47,000
2. Site Preparation		\$ 10,000	\$ 10,000
3. Abutments		\$ 9,800	\$ 40,000
4. Pilings/Piers		\$	\$
5. Approaches		\$ 5,250	\$
6. Riprap		\$ 3,750	\$ 10,000
7. Labor		\$	\$ 20,000
8. Equipment Rental		\$ 4,000	\$
9. Culverts		\$	\$
10. H & H Study		\$ 3,500	\$
11. Wetland Delineation		\$ 6,000	\$
12. Other <u>trucking</u>		\$ 4,000	\$
	<b>Subtotal</b>	<b>\$ 93,300</b>	<b>\$ 127,000</b>
	<b>Total Cost</b>	<b>\$ 313,300</b>	<b>\$ 397,000</b>

**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	\$	_____
	<b>Total</b>	<b>\$ _____</b>



# Douglas County Trail 2 105 and Pokegama Bridge



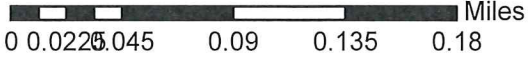
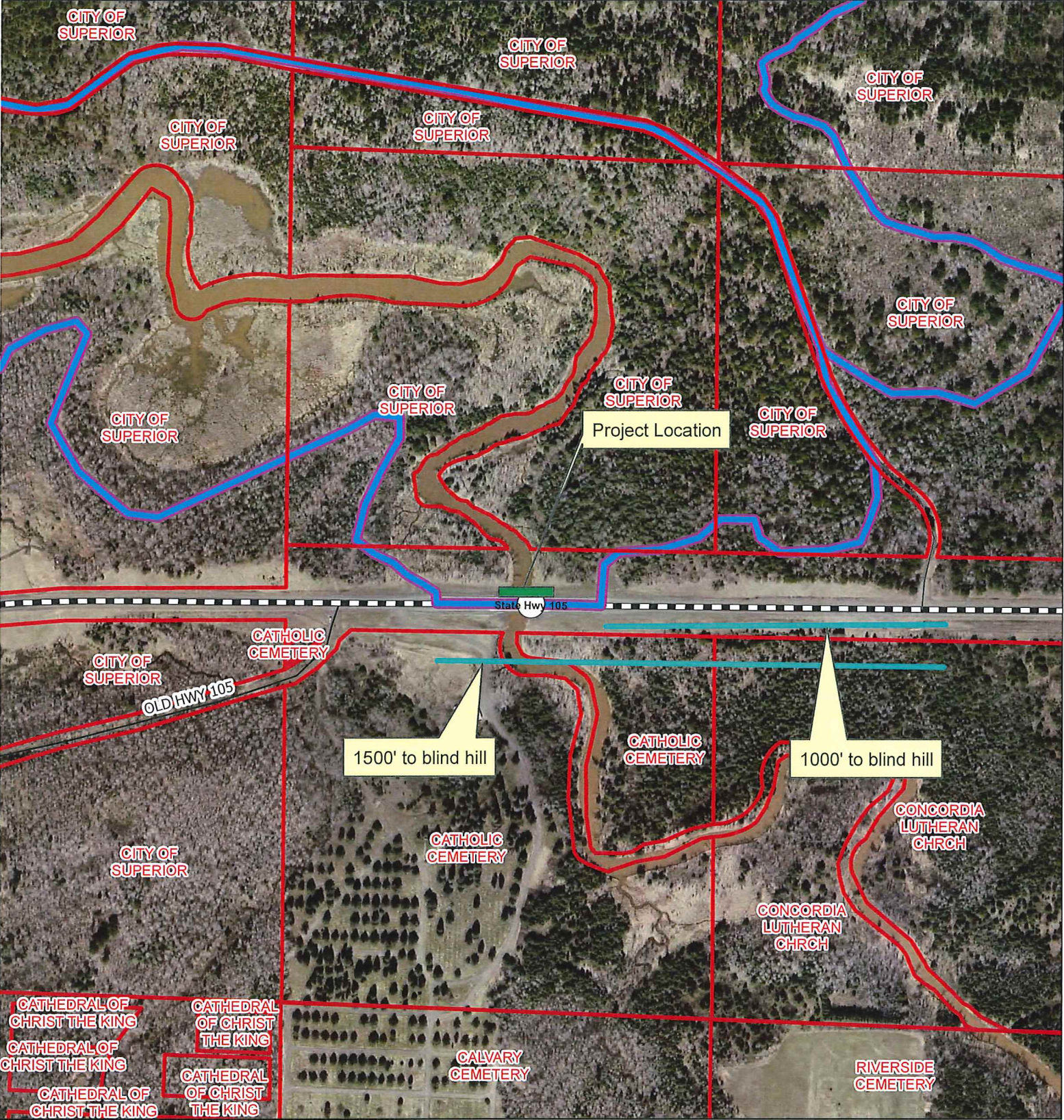
## Legend

-  Snowmobile Funded Trails
-  Winter ATV Funded Trails

Map Prepared By: Clint Meyer



# Douglas County Trail 2 105 and Pokegama Bridge



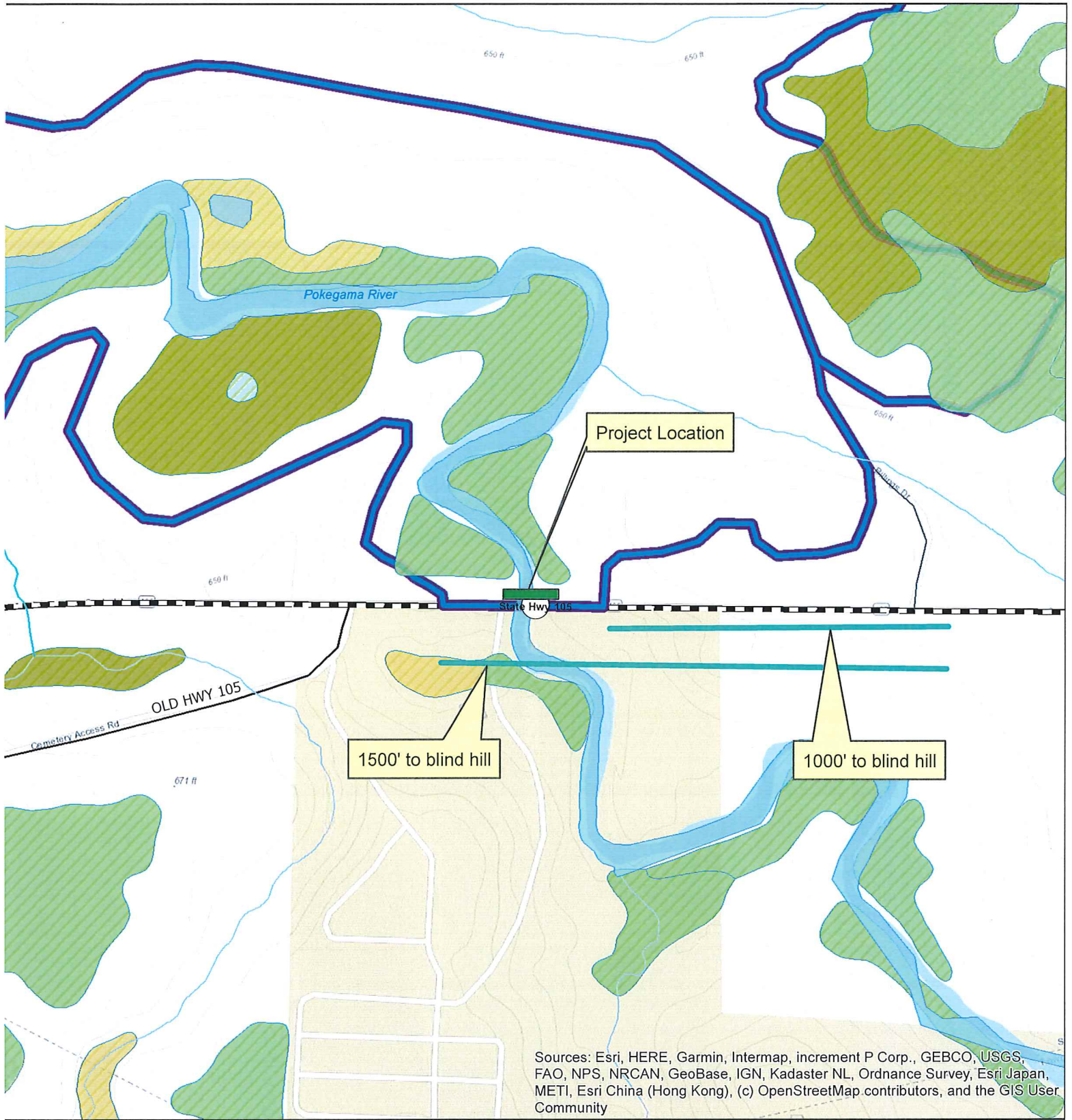
### Legend

- Snowmobile Funded Trails
- Winter ATV Funded Trails

Map Prepared By: Clint Meyer




# Douglas County Trail 2 105 and Pokegama Bridge



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

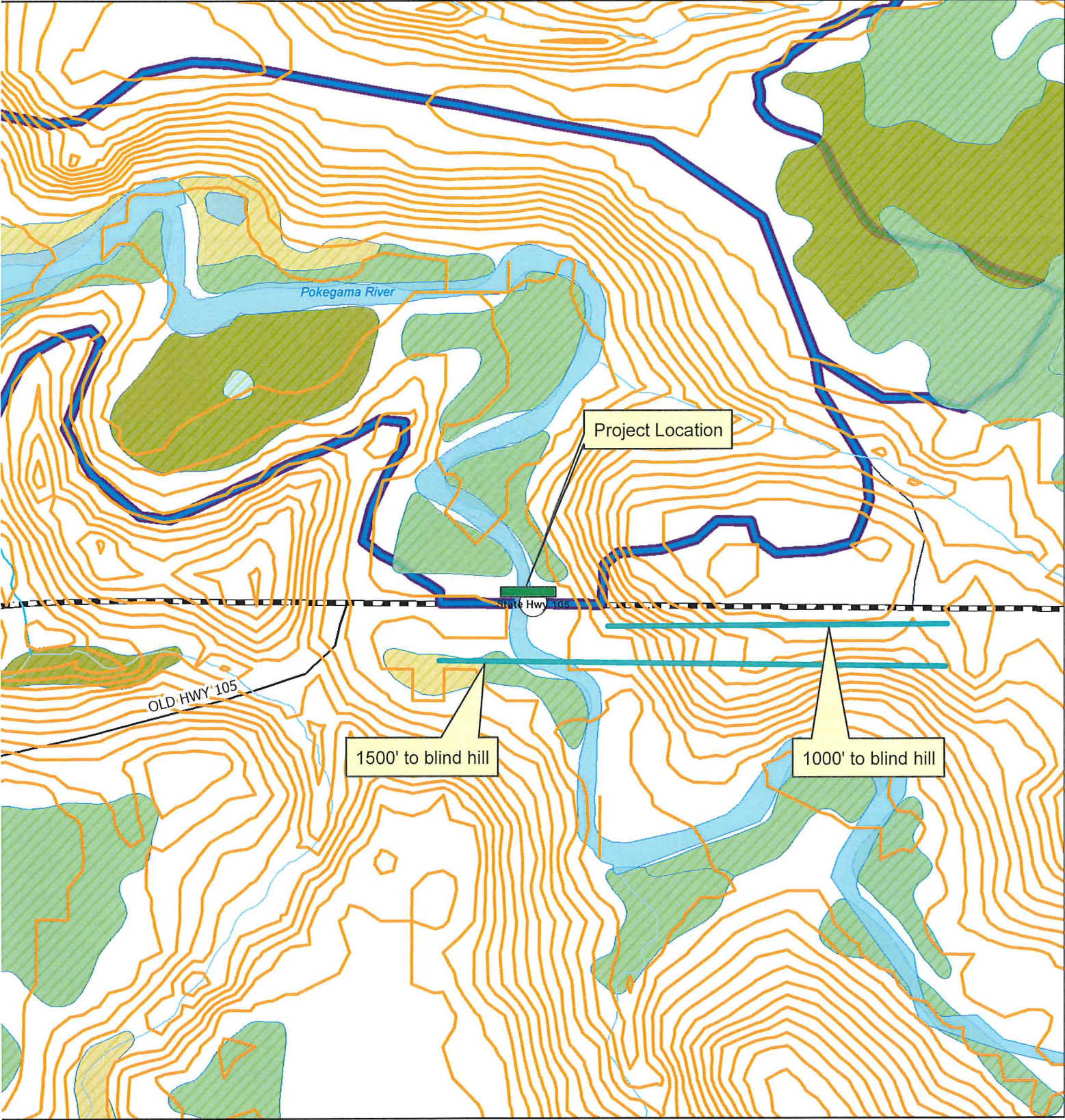
## Legend

-  Snowmobile Funded Trails
-  Winter ATV Funded Trails

Map Prepared By: Clint Meyer



# Douglas County Trail 2 105 and Pokegama Bridge

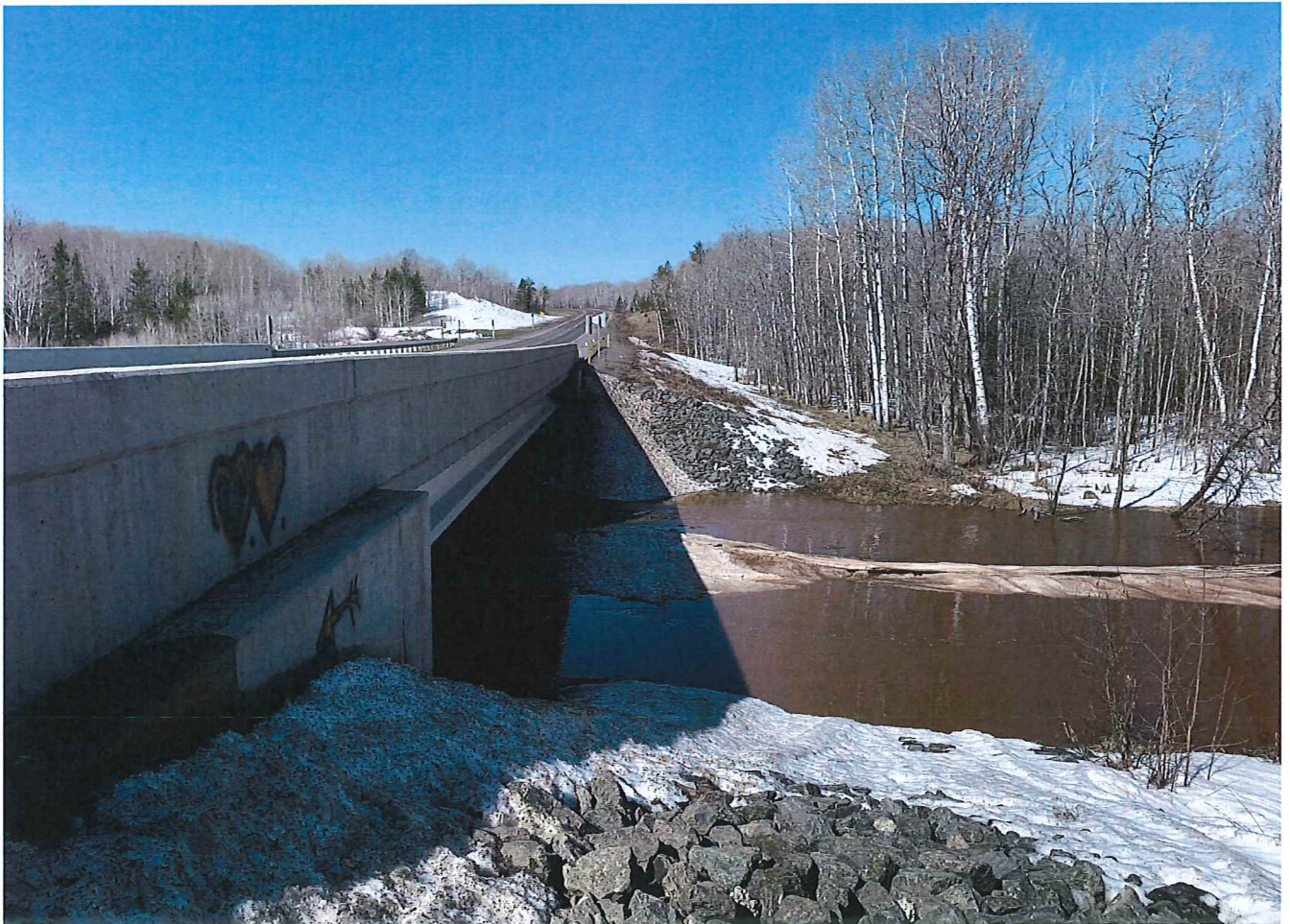


### Legend

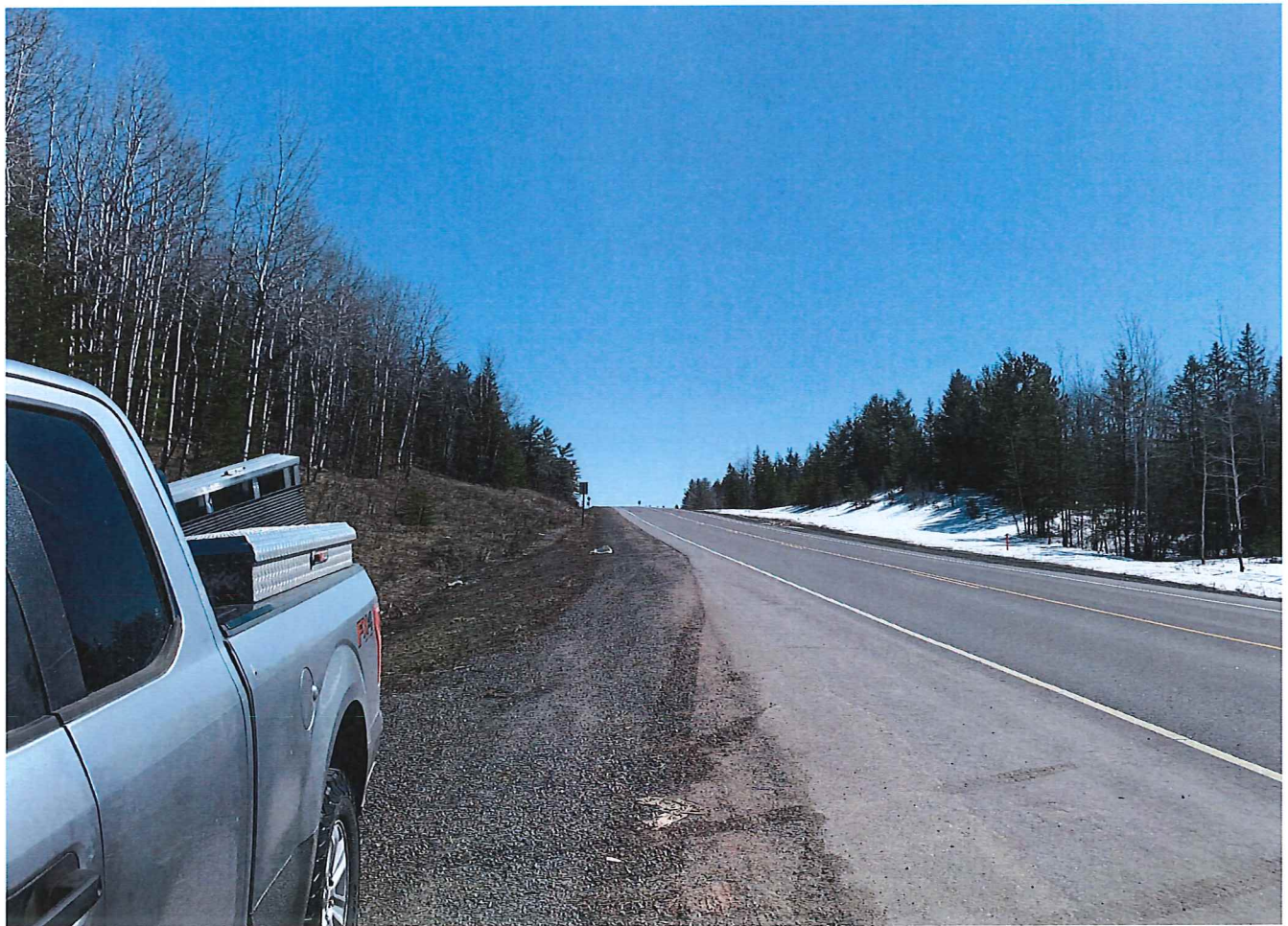
- DC 5 Foot Contours
- Snowmobile Funded Trails
- Winter ATV Funded Trails

Map Prepared By: Clint Meyer

















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

# PROPOSAL

March 30, 2023

To: Douglas County Snowmobile Trail Administrator

Re: Snowmobile Bridge Budget

- 1 - **140' 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 and/or concrete abutments**
  - Loads: **85 psf live load - 35 psf wind load – 25,000 lbs. vehicle load**
  - FOB: **Douglas County, WI**
  - Engineered Drawings State Seal: **Wisconsin**

Price-----		\$350,000
•	Structure (Steel Truss)	\$250,000
•	Engineering	\$20,000
•	Soil Testing	\$0
•	Site Prep	\$10,000
•	Abutments	\$40,000
•	Labor	\$20,000
•	Rip Rap	\$10,000

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

Please call with any questions.

Thank you,

Kory S. Weathers



Todd Gibbon  
Long Island Engineering LLC  
201 Maple Ridge  
Ashland, WI 54806



February 7, 2023

Clint Meyer  
Resource & Recreation Manager  
Douglas County Forestry Department  
9182 East Hughes Avenue  
Solon Springs, WI 54873

Mr. Meyer:

Thank you for the opportunity to provide professional services for the Hwy 105 Bridge ATV trail project.

**Project Overview**

We understand that Hwy 105 Bridge is recreational trail crossing the Pokegama River. The river is an unnumbered A Zone Floodplain. There are also wetlands associated with the project area. WESLIE Engineering Group has developed the following work plan to perform required wetland delineations, floodplain modeling, and prepare bidding documents for a public and competitive bid. We also understand that a separate bridge designer will be contracted for the bridge design and will be responsible for creating plans, details, and specifications for the bridge.

**Work Plan**

<b>Task 1</b>	<b>Site Survey and Data Collection</b>	<b>\$3,500</b>
	Collect topographic survey of the bridge, embankment, and adjacent work area. Conduct field visit to collect measurements for stream channel typical section.	
<b>Task 2</b>	<b>Wetland Delineation</b>	<b>\$6,000</b>
	Complete a wetland delineation of project area. Create wetland delineation report and obtain concurrence from WDNR.	
<b>Task 3</b>	<b>Site Visit and Permitting Strategy</b>	<b>\$3,000</b>
	Conduct site visit and collect field data. Create preliminary design drawings in coordination with the Douglas County Forestry Department. Develop permit strategy and time frames.	



<b>Task 4</b>	<b>Hydrology for Zone A</b> Obtain most current Hydrology modeling from WDNR. The stream is currently in a study and best available data must be use. Additionally a USGS Regression analysis may be conducted as a secondary check to the hydrology.	<b>\$4,500</b>
<b>Task 5</b>	<b>River Analysis using HEC-RAS</b> Develop a steady state Hec-RAS model for two conditions (existing and proposed). A third modeling could be constructed as an alternate location for the bridge. Assumes no additional modeling if a rise in water surface elevation occurs. Floodplain easement may be required in the result a rise in floodplain occurs. Additional model iterations will require additional time and associated fee.	<b>\$4,500</b>
<b>Task 6</b>	<b>H&amp;H Report</b> Complete WDNR compliant report containing H&H data and assumptions and results.	<b>\$3,500</b>
<b>Task 7</b>	<b>Shoreland Zoning Permit</b> Submit to Douglas County Zoning a Shoreland Zoning permit.	<b>\$4,000</b>
<b>Task 8</b>	<b>Wetland Permitting</b> Develop and submit a joint wetland permit for wetland impacts associated with the project. A joint permit will be submitted to WDNR and Army Corps.	<b>\$4,500</b>
<b>Task 9</b>	<b>Ch30 Permitting</b> Create a Chapter 30 permit for construction of a new bridge over a navigable waterway.	<b>\$6,000</b>
<b>Task 10</b>	<b>Updated Drawings for Bid Package</b> Compile up dated drawings for environmental permitting and bridge construction plans (from others). Bridge designer to provide technical specifications, drawings, and details for bridge and abutment designs.	<b>\$3,500</b>
<b>Task 11</b>	<b>Bid Package</b> Complete competitive bid package. Package includes contract language (front end specifications) and technical specifications with plan sheets and details. Attend prebid meeting and bid opening and perform bid evaluation.	<b>\$5,000</b>



<b>Alt 1</b>	<b>As-Built Topo and Drawings</b> WDNR may require As-Built drawings as a result of this project.	<b>\$3,500</b>
<b>Alt 2</b>	<b>WDNR Stormwater Permit</b> Create WDNR construction site notice of intent to discharge stormwater (WDNR stormwater permit). Includes erosion control narrative, Soil Loss Calculation, and ePermit submittal. <b>If during design we exceed 1 acre a stormwater permit will be required.</b>	<b>\$5,000</b>

### **Deliverables**

For this project, Long Island Engineering LLC and Weyandt Engineering Services LLC (WESLIE Engineering Group) will provide the following:

- Preliminary design plans for WDNR permitting
- Floodplain Analysis
- Ch30 Permitting
- County Shoreland zoning permit
- Wetland Permitting
- Competitive Bid Package
- As-built survey and stamped as-built plans (if required)
- WDNR stormwater permit (if required).

### **Exclusions**

The following are not listed in the cost estimate

- Permitting fees.
- Floodplain easement and coordination if required.
- Bridge and abutment design.
- Structural design.

### **Schedule**

The design and permitting work for this project would be scheduled for 2024 with a 2025 construction season.

### **Fee Estimate**

We propose to complete **Tasks 1** through **11** in the scope of work for a time and materials estimated fee of **\$48,000**. **Alt1** and **Alt1** we propose to complete only if needed for a fee of **\$3,500** and **\$5,000** respectively.

If during the course of work, any issues that arise that are beyond the scope of this proposal, Long Island Engineering LLC will discuss the potential effects of this on the project and provide an estimated fee prior to moving forward with any additional work.



Clint Meyer  
February 7, 2023  
Page 4

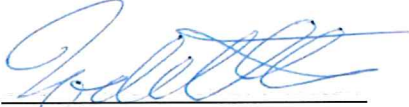
The following rates apply to staff that may work on this project. These rates are good for the 2024 calendar year.

- Senior Engineer     \$150/hr
- Admin Support       \$60/hr

This letter and contract represents the entire understanding between Douglas County Forestry Department and Long Island Engineering LLC for the above described project (**Hwy105 Bridge**) and may only be modified in writing signed by both parties. If this satisfactorily sets forth your understanding of our agreement, please sign in the space provided below and return to us. This proposal is valid for 30days from date above.

If this proposal meets your approval, please sign below and return a scanned copy. If you have any questions, please contact me at **715-209-4747** or via email at **longislandengineeringllc@outlook.com**.

Sincerely,



\_\_\_\_\_  
Todd Gibbon, PE, CFM

2/7/2023

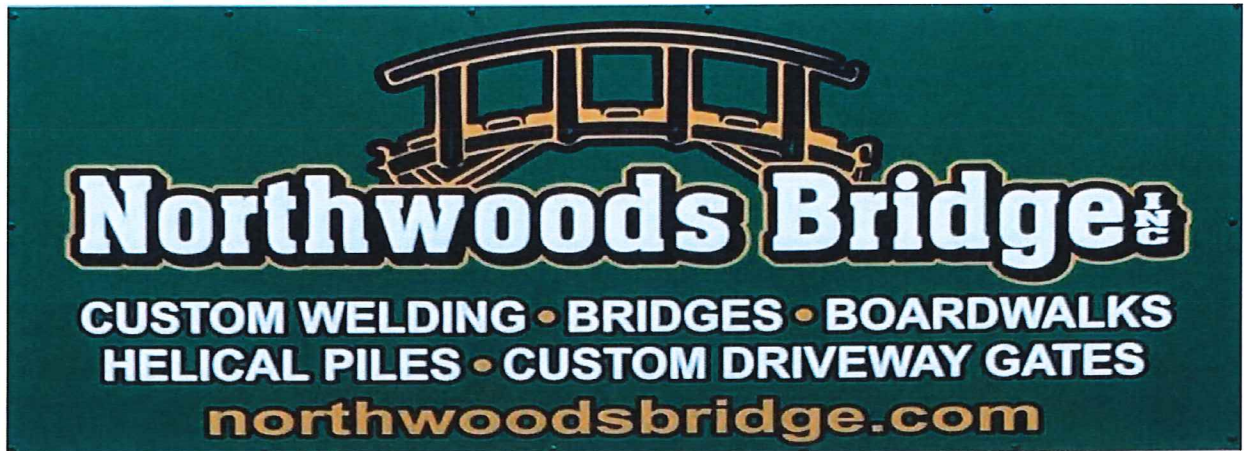
\_\_\_\_\_  
Date

Accepted by:

\_\_\_\_\_  
Signature (Clint Meyer)

\_\_\_\_\_  
Date





A Division of Extreme Landscape LLC

April 7, 2023

### Pokegama Bridge Estimate

Northwoods Bridge Inc will build a 140' bridge and haul to site in 2 sections and weld back together on site. We will also do all the dirt work and regrading of this area. The bridge will have helical piles drove into the ground with concrete abutments.

The hardware that will be used in the project are:

- 3" x ½" galvanized carriage bolts
- ½" galvanized washers
- ½" galvanized nuts
- 2" x ½" galvanized bolts
- Grk 5/16" x 2 ¾" screws

The first layer of treated 2x12x12 decking will be bolted down using 3" x ½" galvanized carriage bolts with ½" galvanized washers and ½" galvanized nuts 10 per board.

The second layer of 2x12x12 treated decking will be fastened with Grk 2 ¾" x 5/16" screws 10 per board.

The bridge will be constructed from core 10 structural steel and will be welded to D1.1 welding standards.

Dirt work will be done in summer months and bridge will be set after river is frozen to allow bridge to be pulled over ice this is to reduce cost of having a crane on site and shutting down the main road while crane is set up for install.

I require 60% down payment to start the project and to order materials. The last 40% to be paid when bridge is completed and installed within 30 days.

The manufacture time will not start until down payment has been received.



140' Bridge	\$ 205,000.00
Dirt work	10,000.00
100 yards fill	2,000.00
80 yards gravel	2,000.00
Concrete Abutments	9,800.00
2 Semi wreckers	4,000.00
Prints	15,000.00
Rip Rap	3,750.00
Seed, Lime & Fertilizer	400.00
Straw Rolls	500.00
Trucking	4,000.00
Erosion Fence	<u>350.00</u>
	<b>\$ 256.800.00</b>

Pat Hover, Owner  
Northwoods Bridge Inc  
715-205-1269