

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

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 02/2024)

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 Waupaca County Parks			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 John D. Francis			Check Recipient Name (Name to Appear on Check)		
Title Parks and Solid Waste Director			Title		
Address 811 Harding Street			Address		
City Waupaca	State WI	ZIP Code 54981	City	State	ZIP Code
Telephone Number 715-258-6243		Email Address john.francis@co.waupaca.wi.us			

Section 2: Project Information Required for all Projects

Project Title Trail E Manditory Re-route with new culvert					Current Funded Miles 401.1	New Miles (if applicable) -0.1
County Waupaca	Township 22 N	Range 12	Section 20	¼ ¼ SW	¼ NE	GPS Coordinates: Lat. 44.369939 Long. -89.067707

Project Description Summary

Trail is moving to the edge of a parcel as the landowner is turning the property into a bird sanctuary and does not want a trail through the center of the parcel. This will require the placement of a 60" squash culvert in a drainage ditch to allow the trail to cross along the Eastern boundary of the property. A permit has been applied for and recieved through the DNR. The resulting change in trail length will result in losing 0.1 mile of trail.

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

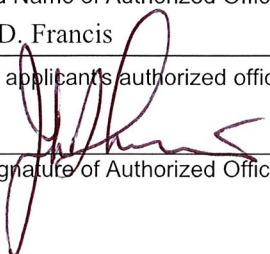
Estimated Cost

Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
-\$30.00			\$11,300.00			
Leave Blank – DNR Use Only						

Applicant Certification

Printed Name of Authorized Official John D. Francis	Official's Title Parks and Solid Waste Director - Waupaca County
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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

10 April 2024
 Date Prepared

Motorized Recreation Grant Application

Form 8700-159 (R 02/2024)

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Appendix A – Required for Bridge Rehab/Replace, New, or Reroute with New Bridge

Bridge Rehab/Replace
 New Bridge
 Reroute with new bridge

County Waupaca	Township 22 N	Range 12	<input checked="" type="radio"/> E <input type="radio"/> W	Section 20	¼ ¼ SW <input type="checkbox"/> NE <input type="checkbox"/>	GPS Coordinates: Lat. 44.369939 Long. -89.067707
Water Body Name Un-named drainage ditch				Bridge Name Culvert on BC Marsh Property		County Inventory Number n/a
Funded Trail Name or Number (SNARS if applicable) Trail E				Has this bridge site ever received development or rehabilitation funds in the past? <input type="radio"/> Yes <input checked="" type="radio"/> No Year: _____ \$ _____		
Bridge is located on: <input checked="" type="radio"/> Private property <input type="radio"/> Public property				Old Bridge/Culvert Size n/a New Bridge/Culvert Size 60" x 30' steel squash pipe		
Landowner Where Bridge is Located BC Marsh LLC - Robert Faulks				Telephone Number 715-412-0202	Length of Trail Use Agreement (5 year minimum) 10 years	
Current maximum load _____ lbs.		Age of Bridge		Bridge Material		
Proposed maximum load _____ lbs.						
Sponsoring Club Name Scandinavia Vikings				Club Contact Justin Hahn		Telephone Number 715-281-0726
Do you have your trail bridges posted as to maximum load? <input type="radio"/> Yes <input checked="" type="radio"/> No				What is the maximum load of the other bridges on the system if groomed with this bridge?		
What is the weight of your puller & drag/grading equipment? 18,000 lbs						
What other recreational trail uses are 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? n/a						

- 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

See attached project narrative.

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>60" x 30' squash</u>	<u>60" x 30' squash</u>
Bridge Manufacturer:	<u>S & S Excavating</u>		<u>Faulks Brothers</u>
Design Weight Load		_____ lbs.	_____ lbs.
Cost of Structure:	1. Engineering	\$ _____	\$ _____
	2. Structure	\$ <u>8,500.00</u>	\$ <u>21,350.00</u>
	Subtotal	\$ <u>8,500.00</u>	\$ <u>21,350.00</u>
		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
Installation Costs:			
1. Engineering		\$ _____	\$ _____
2. Site Preparation		\$ _____	\$ _____
3. Abutments		\$ _____	\$ _____
4. Pilings/Piers		\$ _____	\$ _____
5. Approaches		\$ _____	\$ _____
6. Riprap		\$ _____	\$ _____
7. Labor		\$ _____	\$ <u>5,250.00</u>
8. Equipment Rental		\$ _____	\$ _____
9. Culverts		\$ _____	\$ _____
10. H & H Study		\$ _____	\$ _____
11. Wetland Delineation		\$ _____	\$ _____
12. Other <u>Installation and Fill</u>		\$ <u>2,800.00</u>	\$ _____
	Subtotal	\$ <u>2,800.00</u>	\$ <u>5,250.00</u>
	Total Cost	\$ <u>11,300.00</u>	\$ <u>26,600.00</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
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Bridge Dimensions: _____

Design Weight Load _____ lbs.

1. Materials \$ _____

2. Labor \$ _____

Total \$ _____

Motorized Recreation Grant Application

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Appendix B – Required for Trail/Qualified Trout Rehab, Reroute, or Development

Trail Rehab
 Qualified Trout
 New Trail
 Trail Reroute (Mandatory or Discretionary)

County Waupaca	Township 22 N	Range 12	<input checked="" type="radio"/> E <input type="radio"/> W	Section 20	¼ ¼ SW <input type="checkbox"/> NE <input type="checkbox"/>	GPS Coordinates: Lat. 44.369939 Long. -89.067707
-------------------	------------------	-------------	---	---------------	--	--

Funded Trail Name or Number (SNARS if applicable) Trail E	Has this trail ever received development or rehabilitation funds in the past? <input type="radio"/> Yes <input checked="" type="radio"/> No Year: _____ \$ _____
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Trail is located on: <input checked="" type="radio"/> Private property <input type="radio"/> Public property	Length of Easement or Landowner Use Agreement 10 years	Expiration Date 04/03/2034
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Landowner Where Trail is Located BC Marsh LLC - Robert Faulks	Telephone Number 715-412-0202
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What other recreational trail uses are planned for this trail?
None

If there are other Recreational uses planned, how much of the trail development/rehab. cost will be paid for by other users?
n/a

How many miles would be affected if this project is not funded? 6.5 miles of trail would be closed	Will this result in closure of a trail? <input checked="" type="radio"/> Yes <input type="radio"/> No
---	--

Is this a critical section to the overall trail system? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is there a reasonable alternative? The shortest way around on existing trails is 21.1 miles.
--	---

Does any section of this trail contain a bridge? <input type="radio"/> Yes <input checked="" type="radio"/> No	Will this bridge require rehabilitation now or in the next few years? <input type="radio"/> Yes <input checked="" type="radio"/> No	What is the weight of your puller & drag/grading equipment? 18,000 lbs.
---	--	--

- 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 Will this project be located near or cross any intermittent or perennial waterway? [Surface Water Data Viewer](#)
- Yes No Will this project be located near or cross any wetland?
- Yes No Will this project involve land disturbance – including clearing and grubbing – of 1 acre or more of land? (Less than 4/10th mile for a typical trail) [DNR Storm Water Contact List](#)

Trail Project Detailed Description
See attached project narrative.

Trail E Re-route with Culvert

Guidelines for Applicant

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

Mandatory or Discretionary? (no points)			
A) Trail is already closed or will be closed for the upcoming season.	Mandatory		
B) Trail won't be closed for the coming season, but relocation is preferable for landowner request to avoid road use, etc	Discretionary		

Category		Possible Points	Actual Points
1	Maintenance Increase Only		
	New trail footprint has already been cleared/constructed, application is requesting only a maintenance increase	2	0
2	Dedicated Highway Rec Wing		
	An opportunity to develop a dedicated rec wing on a highway will allow for increased safety of trail users by getting them off of a shared highway bridge.	2	0
3	Funding (maximum points 2) Are other funds already committed?		
	50% or greater from other funding source(s)?	2	0
	11% - 49% from other funding source(s)?	1	0
	0% - 10% from other funding source(s)?	0	0
4	Length of Written Easements or Land Use Agreement (max points 4) (ch. 23.09(26)(am)1 WI Stats)		
	On public land (County, State, Federal)	4	0
	10 or more year deeded easement on private land or other public land, for all portions of that trail segment to the nearest road on each side	3	0
	3-9 year deeded easement on private land or other public land, for all portions of that trail to the nearest road on each side	2	0
	10 or more year land use agreement (LUA, not deeded) on private land or other public land	1	1
	3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	0
5	Miles Impacted – How many miles will need to rerouted if the trail is shut down? <i>21.1</i> Measured from nearest intersection on both sides of lost segment. (max 4 points)		
	Less than 20 miles	1	0
	20 miles or more	3	3
	No other snowmobile trails connect. Explain:	4	0
DEDUCTIONS			
8	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	0
GRAND TOTAL			4

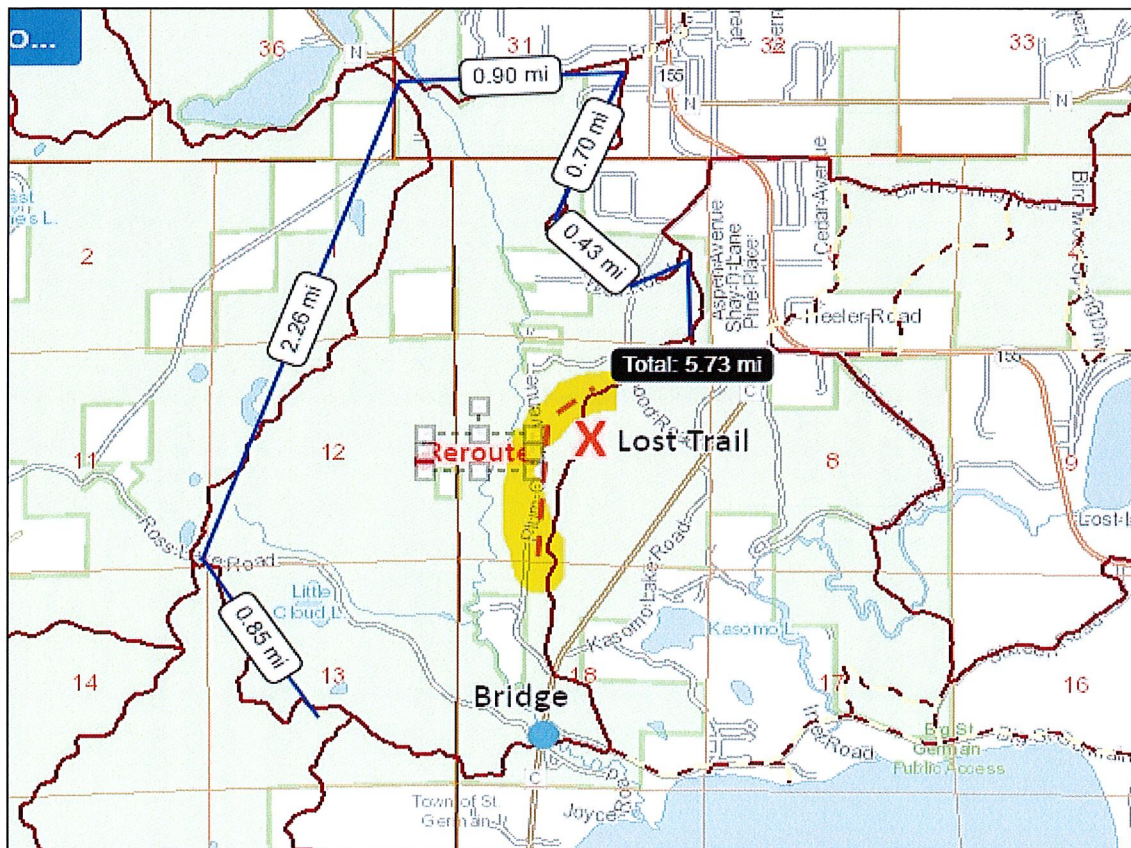
Comments/Notes:

- 6.5 miles of trail will be lost if this trail is not re-located.
- It is 21.1 miles to use existing trails to get around this trail section if it were to be closed.
- see attached maps for details.

5) Example of Intersection to Intersection Measurement

If this trail is closed and a relocation not funded, how far around would riders need to travel on existing trails?

In the example below, to bypass the trail segment that is closing, riders would need to travel 5.73 miles on a trail to the NW if the reroute is not approved.



Trail E Mandatory Reroute



3/27/2024, 9:36:34 AM

Map Data Sources --> Waupaca County Land Information

To Order Maps Or To Report A Problem Visit...
www.co.waupaca.wi.us/departments/land_information/index.php

Map Key

- | | | | | | |
|--|------------|--|-------------|--|------------|
| | Override 1 | | Override 1 | | Snowmobile |
| | Override 2 | | Tax Parcels | | |

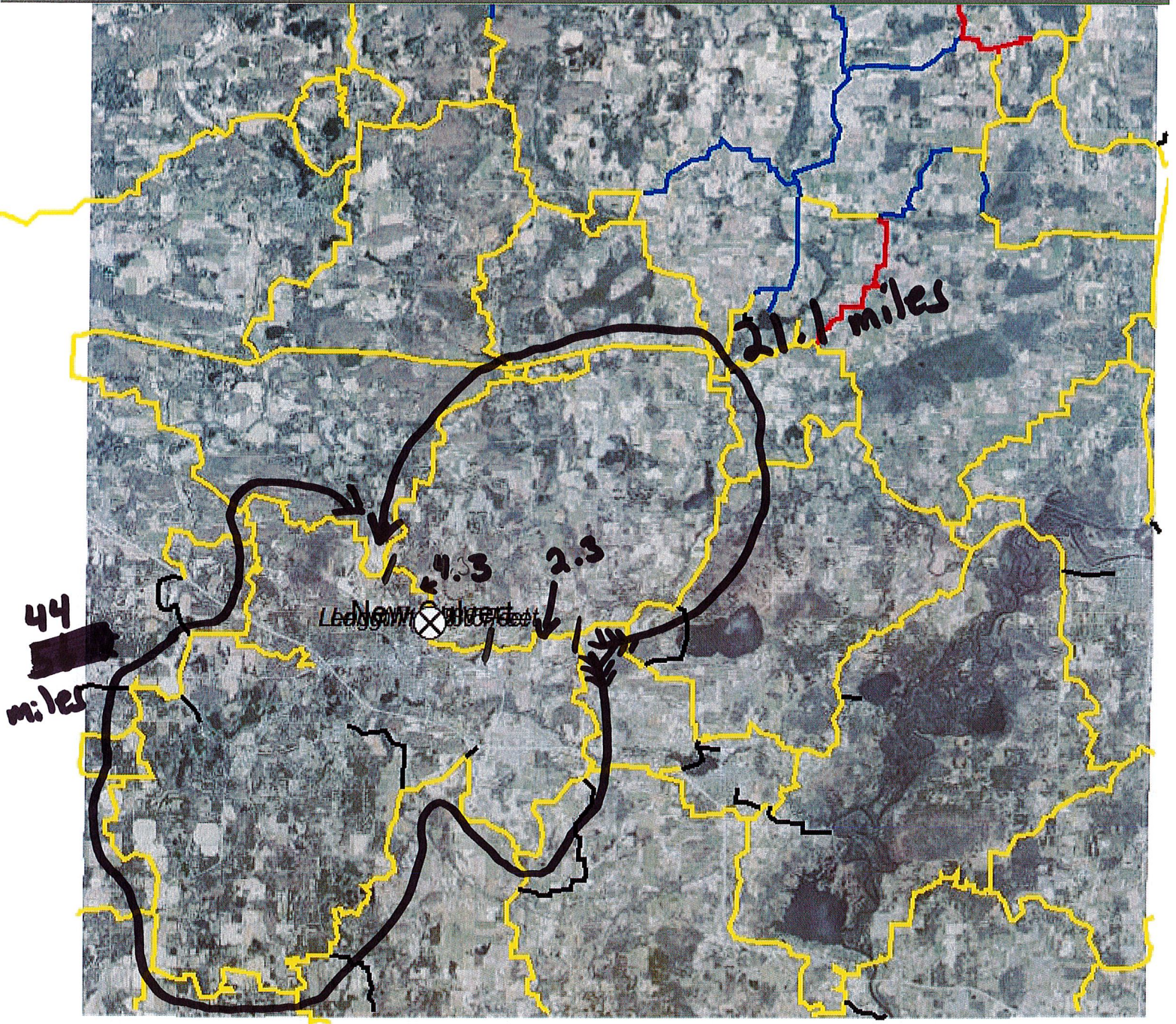
$$\begin{array}{r}
 1,608.5 \\
 - 898.6 \\
 \hline
 709.9 \text{ - Distance lost} \\
 \div 5,280 \\
 \hline
 .13 \text{ miles lost}
 \end{array}$$



ATTENTION!

GIS TAX PARCEL MAPS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT INTENDED TO REPRESENT EVIDENCE IN TITLE. THE REPRESENTATIONS ON THESE MAPS COULD IN FACT BE IN ERROR AND SHOULD NOT BE RELIED UPON AS THE SOLE DETERMINING FACTOR IN THE LOCATION OF ANY GIVEN PARCEL. WAUPACA COUNTY IS NOT RESPONSIBLE FOR ANY INACCURACIES CONTAINED HEREIN. INDIVIDUALS SHOULD CONSULT LEGAL REPRESENTATION OR PROFESSIONAL SURVEY ADVICE TO CONFIRM.

Trail E Reroute - System Map



$$\begin{array}{r}
 4.3 \\
 + 2.3 \\
 \hline
 6.6
 \end{array}$$

3/27/2024, 11:15:59 AM

To Order Maps Or To Report A Problem Visit...
www.co.waupaca.wi.us/departments/land_information/index.php

Map Key

- | | | | | | | | |
|--|------------|--|------------|--|---------------------|--|----------|
| | Override 1 | | Override 1 | | Winter Trail
ATV | | Unfunded |
| | | | Override 2 | | Snowmobile | | |
| | | | | | Snowmobile & ATV | | |

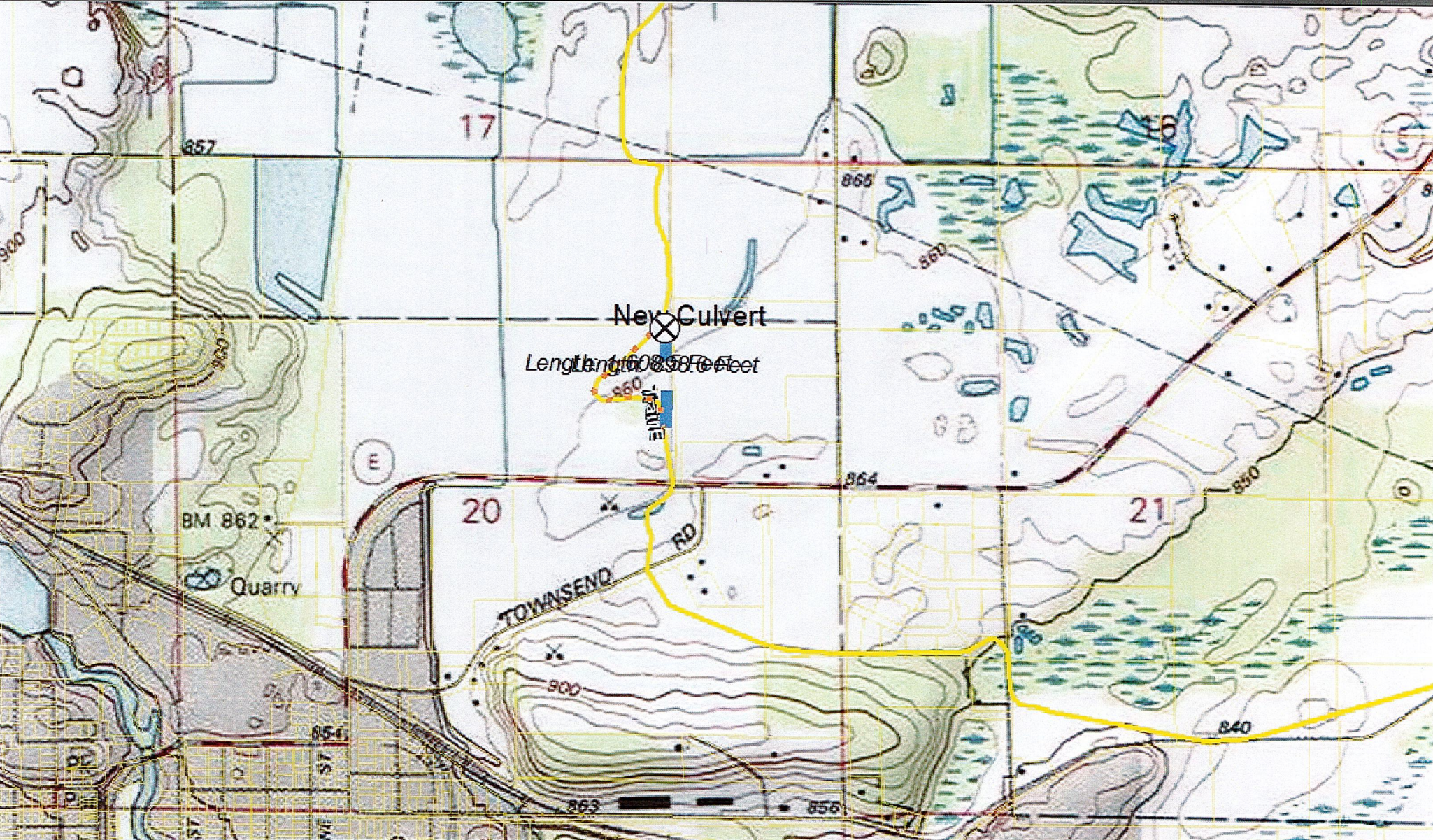
Map Data Sources



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Trail E Reroute - Topo



3/27/2024, 10:25:29 AM

Map Data Sources --> Copyright:© 2013 National Geographic Society, i-cubed

To Order Maps Or To Report A Problem Visit...
www.co.waupaca.wi.us/departments/land_information/index.php

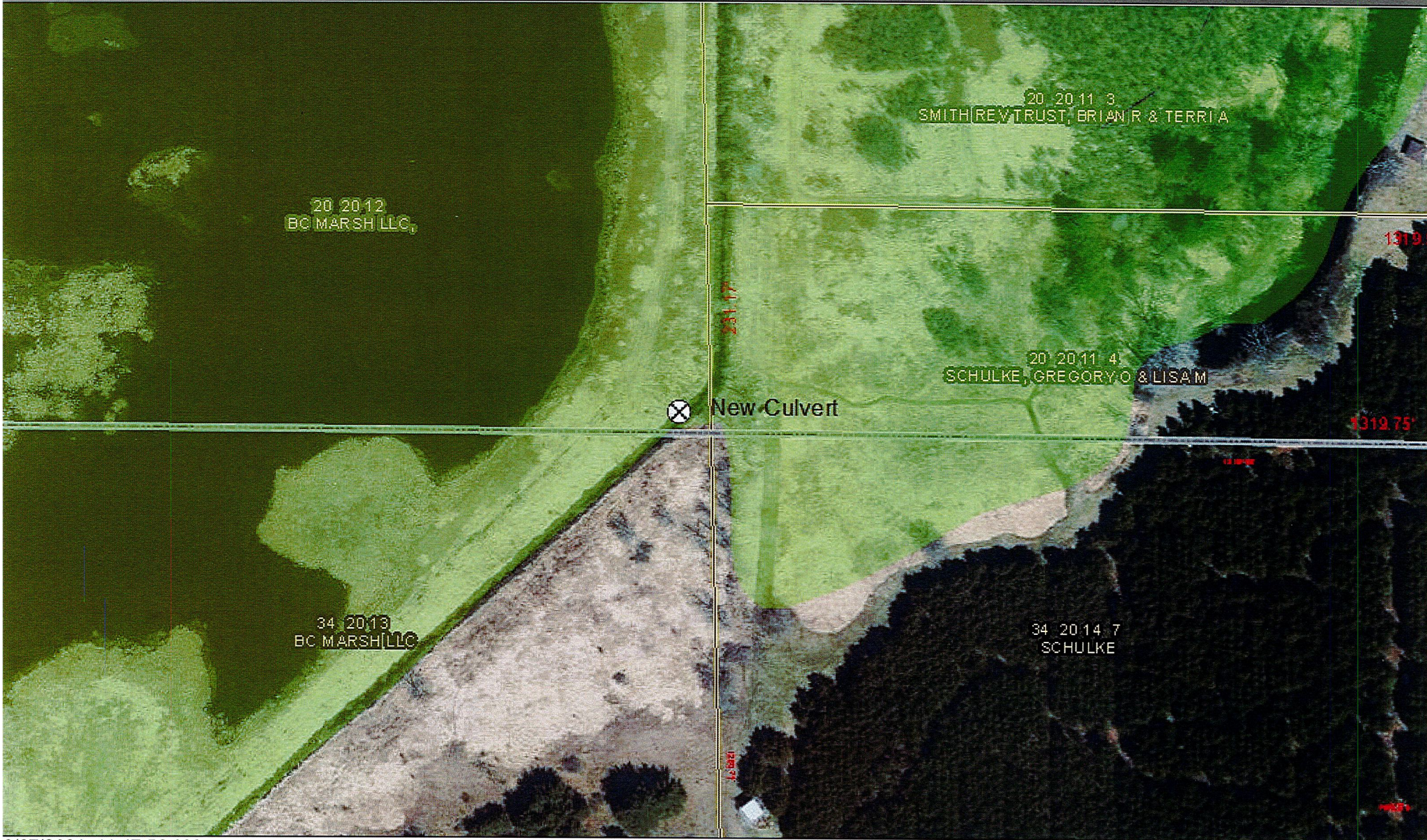
Map Key

- | | | |
|---------------|--------------|---------------------|
| Points | Lines | Winter Trail |
| ⊗ Override 1 | █ Override 1 | — Snowmobile |
| | █ Override 2 | ▭ Tax Parcels |



ATTENTION!
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Trail E Reroute - Wetlands Map



3/27/2024, 11:47:50 AM

Map Data Sources --> Waupaca County Land Information

To Order Maps Or To Report A Problem Visit...
www.co.waupaca.wi.us/departments/land_information/index.php

Map Key

- | | | |
|----------------------------------|---------------------------|------------------------------------|
| Wetlands (DNR Wetland Inventory) | Parcel Boundaries | Tie Bar |
| Addresses / Points of Interest | Historic Lot Lines | New Parcel Numbers |
| CSM-Plat of Survey | Historic Lot Lines | Parcel Changes (Splits-Combos etc) |
| Parcel Numbers / Owner Names | Meander Line | |

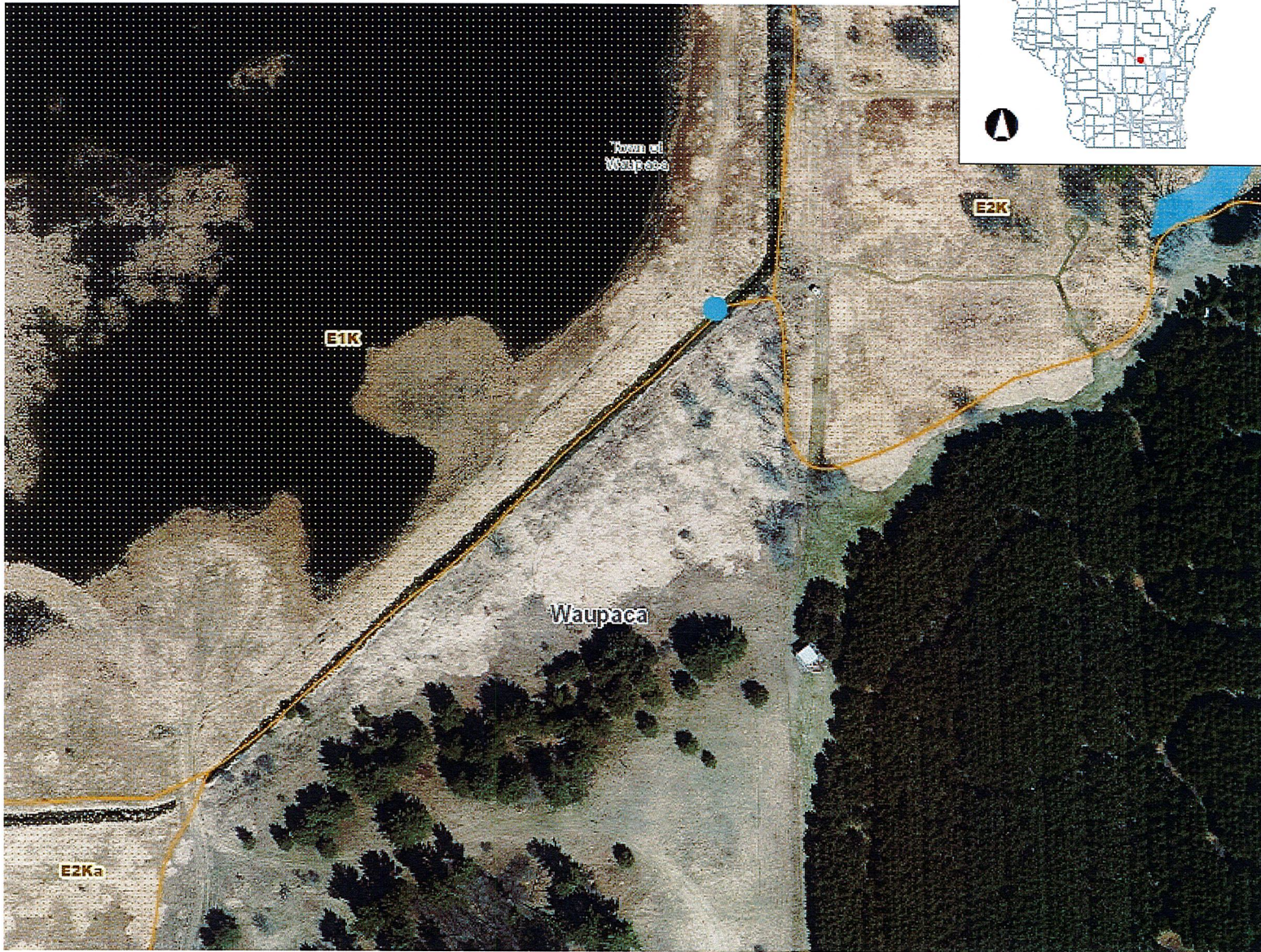
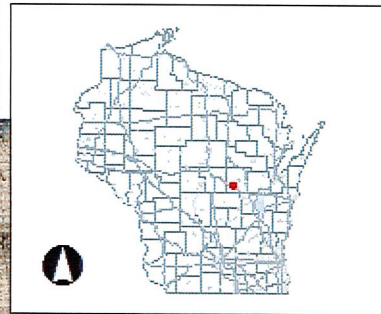


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Surface Water Data Viewer Map - Faulks Culvert Site



Legend

- Lake Class Areas
- Riverine/ditch Class Areas
- 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

NAD_1983_HARN_Wisconsin_TM

1: 1,980

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/legal/>

Notes

Capital Improvement Ownership Acknowledgement

I, Robert Faulk, as landowner, agree that the capital improvement described as "Snowmobile Trail Culvert" that is proposed to be installed by the Scandinavia Vikings Snowmobile Club on land owned by me, described as located on the unnamed drainage ditch that feeds into the marsh on the BC Marsh property, in the SW ¼ of the NE ¼ of Section 20, T22N, Range 12E, Town of Waupaca, Waupaca County, is owned by Waupaca County. I also agree to permit the trail to be used as a public snowmobile trail for a minimum of 10 years from the date below.

[Signature]
(Landowner or Representative)

4/3/24
(Date)

[Signature]
John D. Francis
(Representative of the County)

4 April 2024
(Date)

[Signature]
(Scandinavia V.Kings Snowmobile Club)

4-4-24
(Date)

S & S Excavating
Job Estimate

N6256 CTY. RD. O
Manawa, Wi 54949
920-596-3215

Job _____ -
Scandinavia Vikings Snowmobile Club
Lenny Hahn
Lennyhahn07@gmail.com
715 281 0726

Description - First culvert in ditch

Culvert 60"x30' \$ 8,500
These quotes are only good for 30 days

Excavating includes installing culvert and leveling 7 loads of fill and one load to cover and grow vegetation on culvert **\$ 2,800**

11,300

Does not include repairing of private power or water lines. You will need to locate private utilities for us if there are any; Diggers Hotline only locates public lines.
Please give me as much notice as possible and it is a three day notice for Digger's Hotline to locate.

Questions or concerns call me at 920-538-4000

Mark Schuelke _____

Authorized Rep _____



FAULKS BROS.
E3481 ROYALTON
WAUPACA WI 54981
USA

Phone: 715-258-8566
Fax: 715-942-0509

Date: 3/22/24
Expires: 4/22/24

NICK PANKRATZ
nick@waupacasand.com

Quote Number: 11089

QUOTE

Quote To: SCAN05

Ship to/Job Site: 4

JUSTIN HAHN
SCANDINAVIA VIKINGS SNOWMOBILE CLUB
PO BOX 152
SCANDINAVIA WI 54977

SCANDINAVIA VIKINGS- CULVERT FAULKS MARSH
BOB FAULKS MARSH
CTY RD E
WAUPACA WI 54981

PHONE:

EMAIL:

Budgetary Estimate for 60" x 30' HDPE Culvert and Installation on Bob Faulks Marsh Property, Cty Rd E, City of Waupaca

Option 1 - 60" x 30' HPDE Culvert w/Endwalls

- Furnish and install (1) 60" x 30' HDPE Culvert w/endwalls.
- Furnish, haul, and place Imported Structural Fill in area approx. 30' x 35' x 5'. Level and compact.
- Furnish, haul, and place 3/4" Limestone base in area approx. 20' x 45' x 1', medium Rip Rap and Fabric for culvert ends. Level and compact as needed.

Option 1 Cost \$23,500.00 - \$25,500.00 +/-

Project Breakdown

Materials	\$18,250.00 - \$20,250.00
Labor & Equipment	\$5,250.00
	<u>\$23,500.00 - \$25,500.00</u>

Option 2 - 71" x 47" x 30' CMP Culvert (steel)

- If a steel "Squash" culvert is used instead of HDPE (plastic) culvert, it would be an additional \$3,100.00.

23,500

26,600

* Final Cost based on actual quantities of materials used.

Note:

No permits are included.

Project would need to be completed in winter and haul road to site prepared by others.

PAYMENT TERMS All invoices are due and payable upon completion. A service charge of 1.5% per month will be added to all past due amounts. All prices subject to applicable sales taxes.

LIEN RIGHTS AS REQUIRED BY THE WISCONSIN CONSTRUCTION LIEN LAW, FAULKS BROS. CONSTRUCTION, INC. HEREBY NOTIFIES OWNER THAT PERSONS OR COMPANIES FURNISHING LABOR OR MATERIALS FOR THE CONSTRUCTION ON OWNER'S LAND MAY HAVE LIEN RIGHTS ON OWNER'S LAND AND BUILDINGS IF NOT PAID. THOSE ENTITLED TO LIEN RIGHTS, IN ADDITION TO THE UNDERSIGNED, FAULKS BROS. CONSTRUCTION, INC. ARE THOSE WHO CONTRACT DIRECTLY WITH THE OWNER OR THOSE WHO GIVE THE OWNER NOTICE WITHIN 60 DAYS AFTER THEY FIRST FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION. ACCORDINGLY, OWNER PROBABLY WILL RECEIVE NOTICES FROM THOSE WHO FURNISH LABOR OR MATERIALS FOR THE CONSTRUCTION, AND SHOULD GIVE A COPY OF EACH NOTICE RECEIVED TO HIS MORTGAGE LENDER, IF ANY. FAULKS BROS. CONSTRUCTION, INC. AGREES TO COOPERATE WITH THE OWNER AND HIS LENDER, IF ANY, TO SEE THAT ALL POTENTIAL LIEN CLAIMANTS ARE DULY PAID.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs must be approved by owner, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance. Note: This proposal may be withdrawn by us if not accepted within 30 days.

Signature NICK PANKRATZ FAULKS BROS. CONSTRUCTION, INC.

ACCEPTANCE OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance:

Signature:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay, WI, 54313

Tony Evers, Governor

Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



03/19/2024

BC Marsh LLC
Robert Faulks
N2285 Long Cove Drive
Waupaca, WI 54981

GP-NE-2024-69-00424

RE: Coverage under the waterway statewide general permit to install a waterway crossing over a tributary to Waupaca River, located north of CTH E, in the SW1/4, NE1/4, Sec. 20, T22N, R12E, City of Waupaca, Waupaca County

Dear Mr. Faulks:

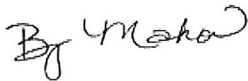
Thank you for submitting an application for a General Permit to install a waterway crossing over a tributary to Waupaca River located, City of Waupaca, Waupaca County.

You have certified that your project meets the eligibility criteria for this activity. Based upon your signed certification you may proceed with your project. Please take this time to re-read the permit standards and conditions. The eligibility standards can be found on your application checklist or in the statewide general permit (found at <http://dnr.wi.gov/topic/waterways/> - keyword: general permits). The permit conditions are attached to this letter. **You are responsible for meeting all general permit eligibility standards and permit conditions.** This includes notifying the Department before starting the project and submitting photographs within one week of project completion. Please note your coverage is valid for 5 years from the date of the department's determination or until the activity is completed, whichever occurs first.

The Department conducts routine and annual compliance monitoring inspections. Our staff may follow up and inspect your project to verify compliance with state statutes and codes. If you need to modify your project please contact your local Water Management Specialist, Bobbi Jo Mahon at (920) 362-1361 or email bobbiejo.mahon@wisconsin.gov to discuss your proposed modifications.

The Department of Natural Resources appreciates your willingness to comply with waterway regulations, which help to protect the water quality, fish and wildlife habitat, natural scenic beauty and recreational value of Wisconsin's water resources for future generations. You are responsible for obtaining any other local, state or federal permits that are required before starting your project.

Sincerely,



Bobbi Jo Mahon
Water Management Specialist

Copy to: USACE Project Manager
Barb Nowak-City Clerk
Jon Kaiser-Conservation Warden
John Francis-Waupaca County Parks
Scott Koehnke-WMS, WDNR
WZ File

Trail E Culvert (Faulk's Property) Project Narrative

Project Description:

The Scandinavia Vikings Snowmobile Club would like to move their trail to the Eastern edge of the Faulk's Property to avoid unnecessary disturbance to what is to become a wildlife sanctuary. Currently, the snowmobile trail crosses the drainage ditch near the center of the 40 acre parcel the trail is located on. There is a 2' x 40' culvert under the existing road/trail. They are proposing to place a 60" squash culvert (71" x 47") x 30' near the Eastern edge of the parcel to cross the drainage ditch. If the club is unable to move the trail, the landowner will not allow the trail to cross their property.

Local Regulatory Coordination:

Upon talking to the Waupaca County Planning and Zoning Department, it was determined that a local permit would not be required for the project.

Methods, Materials, and Equipment:

We are proposing to use a 60" squash culvert (71" x 47") x 30' – likely a galvanized steel one to keep the culvert from floating up while installing it. According to the culvert placement worksheet calculations this size pipe should be sufficient. This ditch has very little flow – there is almost no elevation change for most of it's length. The culvert that the old trail crossed (about 770' to the SW) is a 2' x 40' culvert and has been in place with no issues for a very long time.

The new culvert will be embedded 4-6" into the bottom of the ditch, then a mixture of sand and gravel will be used to fill and compact around the pipe. The final surface of the new trail will be about 20' wide with the banks sloping down such that about 1' of the pipe is showing on each side of the trail. The site is accessible from both sides, so there is no reason for any part of the equipment except the bucket to be in the water. The side banks of the trail around the culvert will be planted with vegetation to control future runoff.

Proposed Construction Schedule:

We are hoping to install the pipe in late summer/fall of 2024 if a grant is approved through the snowmobile program.

Erosion Control:

Temporary silt fence will be installed near the waterline on the new section of trail with the culvert under it. The banks will be seeded to a vegetative cover, once that is established, the silt fence will be removed.

Excavation and Fill Activities:

There should be very little material pulled out of the drainage ditch – just enough to seat the pipe 4-6" below the bottom of the ditch. This material will be stored on site then used on the side banks of the trail. The fill will be sand/gravel and will be compacted around the pipe to prevent washouts in the future.

Avoiding Impact to Wetlands and Waterways:

With the new pipe being much larger than the existing one, there should be no issues with backing up water. As stated before, there is very little flow in the ditch.

Area Impacted:

There will be about 30 lineal feet of the drainage ditch impacted by this culvert project.

Navigational Clearance:

The proposed culvert would not allow a water-craft to pass without portaging around. There are at least two other spots on the ditch that have similar impact. Should someone want to float down the ditch, the portage would be as easy as pulling out on one side of the culvert, crossing the trail, and putting in on the other side.

Supporting Documentation:

See the attached drawings, aerial photos, and worksheet for more details.

General Permit Worksheet Culvert Placement on Navigable Waterways

This worksheet should be completed and accompany all application materials (Waterway General Permit Application and Approval - Form 3500-108) and any other additional support documents.

Project Start Date (mm/dd/yy): 06/01/24

Be aware of the construction season prohibitions:
(A construction waiver must be approved by the local fisheries biologist)

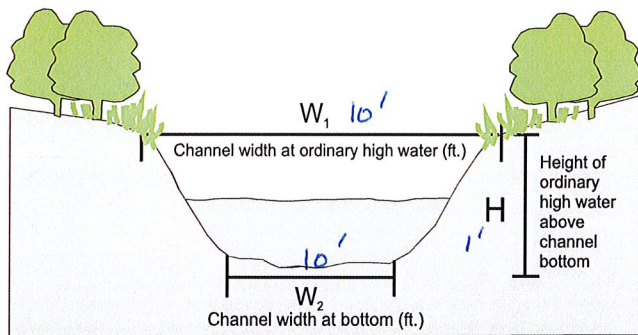
Trout waters and their tributaries: 9/15 - 5/15
Warmwater streams North of Hwy 29: 4/1 - 6/1
Warmwater streams South of Hwy 29: 3/15 - 5/15

Will the proposed project affect the navigational use of the waterbody? Yes No

If "Yes", the following portage will be provided (describe portage): The culvert will restrict access, but this is a drainage ditch with other culverts already in place, the closest being 777ft to the southwest.

CULVERT SIZING

To be eligible for a general permit without a professionally engineered culvert design, the required culvert area may not exceed 20 square feet. To be eligible for a general permit with a professionally engineered culvert design, the required culvert area may not exceed 40 square feet.



Calculating Culvert area

To determine the required culvert area, 3 measurements should be made: channel width of the stream in feet at the ordinary high water mark (W_1), channel width of the stream in feet at the stream bottom (W_2), and the height in feet of the ordinary high water above the stream bottom (H) (see diagram). These 3 measurements are made at each of 3 locations or transects along the stream: the location of the proposed crossing, 100 feet upstream from the crossing, and 100 feet downstream from the crossing. The individual measurements of W_1 , W_2 and H are averaged to derive the final W_1 , W_2 and H values. The required culvert area is then calculated with the following equation:

$$\text{Required Culvert area (square feet)} = H \times (W_1, W_2)$$

Height: * W_1 + W_2 = Culvert Area (square feet)

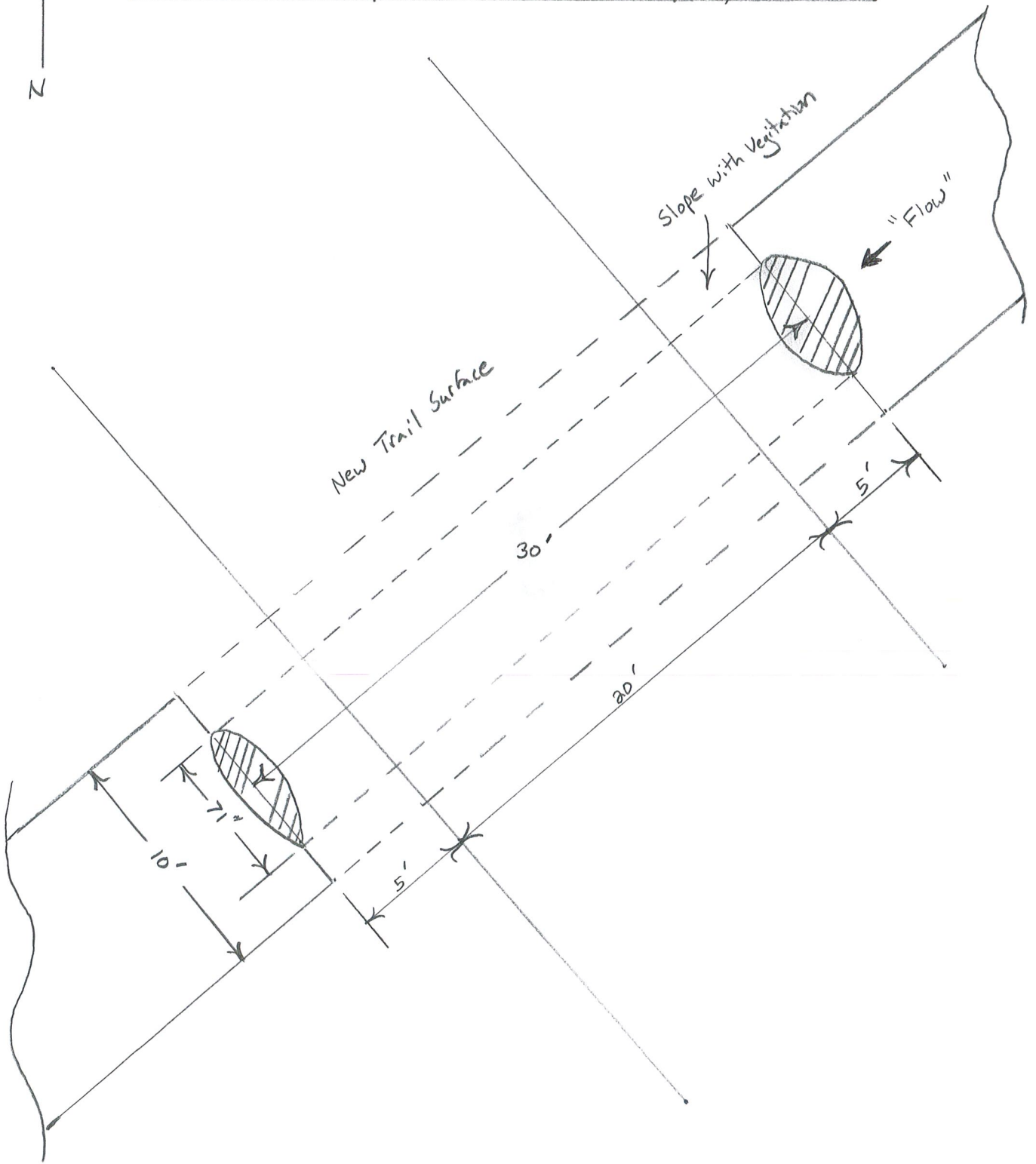
Culvert area and corresponding round culvert size

Culvert area (sq ft)	Culvert diameter (in.)	Culvert area (sq ft)	Culvert diameter (in.)
1.80	18	3.10	24
4.90	30	7.10	36
9.60	42	12.60	48
15.90	54	<u>19.60</u>	<u>60</u>
23.80	66		

The following erosion control measures will be employed:

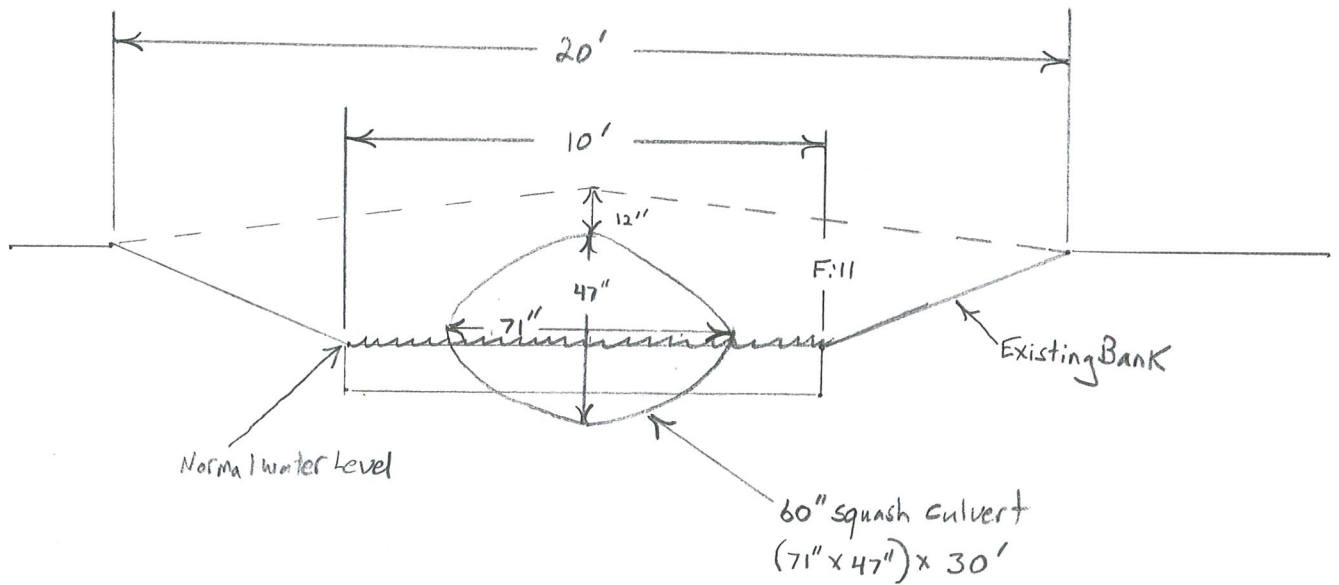
- Silt fence Erosion Mat Other _____
- Seeding/Mulch Riprap _____

Trail E Culvert - Top View - Faulk's Property



1" = 6'

Trail E Culvert Cross Section - Faulk's Property



1" = 4'