

S-24 Bayfield County Ounce River Bridge

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)

Page 1 of 5

☐ ATV/UTV Trail Aid

☒ Snowmobile Trail Aid

Due Date: April 15

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			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input type="checkbox"/> Select if the same as applicant.		
Bayfield County Forestry and Parks					
Individual Authorized to Act on Behalf of Applicant per Resolution			Check Recipient Name (Name to Appear on Check)		
Jason Bodine					
Title			Title		
Forestry and Parks Administrator					
Address			Address		
117 East 5th Street					
City	State	ZIP Code	City	State	ZIP Code
Washburn	WI	54891			
Telephone Number	Email Address				
(715) 373-6114	jason.bodine@bayfieldcounty.wi.gov				

Section 2: Project Information Required for all Projects

Project Title					Current Funded Miles	New Miles (if applicable)
Ounce River Bridge - Trail 31S					464.2	
County	Township	Range	Section	1/4 1/4	1/4	GPS Coordinates:
Bayfield	44 N	9	9	SE	NE	Lat. 46.265095
						Long. -91.432143

Project Description Summary

Bayfield County is applying for a NEW bridge on Trail 31S crossing over the Ounce River. The bridge will be 24x12 to span the width of the river. Parcel of land where the bridge is going is owned by Bayfield County. This section of trail is maintained by Barnestormers Snowmobile Club.

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

Estimated Cost

Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$49,222		\$49,222

Applicant Certification

Printed Name of Authorized Official	Official's Title
Jason Bodine	Forestry and Parks Administrator

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

3-31-25
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 Bayfield	Township 44 N	Range 9	<input type="radio"/> E <input checked="" type="radio"/> W	Section 9	¼ ¼ SE	¼ NE	GPS Coordinates: Lat. 46.265095 Long. -91.432143
Water Body Name Ounce River				Bridge Name Ounce River Bridge		County Inventory Number N/A	
Funded Trail Name or Number (SNARS if applicable) 31S				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 type="radio"/> Private property <input checked="" type="radio"/> Public property				Old Bridge/Culvert Size N/A New Bridge/Culvert Size 24 ft			
Landowner Where Bridge is Located Bayfield County Forest				Telephone Number (715) 373-6114		Length of Trail Use Agreement (5 year minimum) NA	
Current maximum load _____ lbs.		Age of Bridge		Bridge Material			
Proposed maximum load 100,000 lbs.		NA		N/A			
Sponsoring Club Name Barnestormers				Club Contact Rod Buss		Telephone Number (715) 556-4546	
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? 25,000#			
What is the weight of your puller & drag/grading equipment? 22,000-24,000							
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? approximately \$10,000							

- ☒ 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

This project consists of installing a 24 foot bridge on Trail 31S over the Ounce River in the Town of Barnes. Without this bridge, this trail section would be closed and we would lose a main connection between Bayfield and Sawyer County snowmobile trails. The lower cost bridge from Wheeler Lumber LLC, would be installed by our County Highway department.

Excess costs for the 100,000 # weight rating will be paid by the County.

Appendix A (continued)**Summarize Costs in Appropriate Categories:****Bridge Structure****Quote 1**☒ Steel ☐ Wooden**Quote 2**☒ Steel ☐ WoodenBridge Dimensions: 24x12Bridge Manufacturer: Wheeler Lumber LLCAnderson BridgesDesign Weight Load 25,000 lbs.25,000 lbs.Cost of Structure: 1. Engineering \$ \$ 2. Structure \$ 29,900\$ 32,000**Subtotal** \$ 29,900\$ 32,000**Quote 1**☐ Contractor or ☐ Sponsor
Estimate**Quote 2**☒ Contractor or ☐ Sponsor
Estimate**Installation Costs:**1. Engineering \$ \$ 5,0002. Site Preparation \$ 2,792\$ 5,0003. Abutments \$ 7,900\$ 12,0004. Pilings/Piers \$ \$ 5. Approaches \$ \$ 6. Riprap \$ \$ 2,0007. Labor \$ 7,709\$ 5,0008. Equipment Rental \$ 450\$ 9. Culverts \$ \$ 10. H & H Study \$ \$ 11. Wetland Delineation \$ \$ 12. Other Admin expenses \$ 471\$ **Subtotal** \$ 19,322\$ 29,000**Total Cost** \$ 49,222\$ 61,000**For the application grant, you must take the lowest of the two quotes.****Entire Deck and Railing Projects**☒ Contractor ☐ Sponsor ☐ ClubBridge Dimensions: 24x12Design Weight Load 25,000 lbs.1. Materials \$ 29,9002. Labor \$ 19,322**Total** \$ 49,222

PROJECT: Bayfield County Snow Bridge
Bayfield County, WI



Wheeler Lumber LLC
Jake Silkey, PE
jsilkey@wheeler1892.com
262.229.4068

BID DATE:

Bridge Option No.1

Prefabricated Timber Panel-Lam Recreation Bridge

Lump Sum Total... \$29,900.00

Bridge Size: 24' x 12'	No. of spans: 1	
Live Load: 90 psf	Vehicle Load: H12.5	Design Code: AASHTO LRFD
Decking: Wood panel	Species: DF	Treatment: QNAP
Railing: Wood	Species: DF	Treatment: QNAP
	Safety Railing: 42" Horizontal	Rail Spacing: Contain 4" sphere

Bridge Option No.2

Prefabricated Timber Panel-Lam Vehicular Bridge

Lump Sum Total... \$36,100.00

Bridge Size: 24' x 12'	No. of spans: 1	
Live Load: 90 psf	Vehicle Load: HS-30	Design Code: AASHTO LRFD
Decking: Wood panel	Species: DF	Treatment: QNAP
Railing: Wood	Species: DF	Treatment: QNAP
	Safety Railing: 42" Horizontal	Rail Spacing: Contain 4" sphere

Prefabricated Timber Panel-Lam Skidder Mats

Lump Sum Total... \$7,900.00

Matt Size: 4' x 16'	No. of mats: 2	
Decking: Wood panel	Species: DF	Treatment: QNAP

Notes:

- All timber to be Douglas Fir, pressure treated with Copper Naphthenate (QNAP) in Type A Hydrocarbon Solvent in accordance with AWP A P-36-22 and HSA-23 to meet AWP A UC4B & UC4C.
- All practical pre-framing to be done prior to treatment. Some field cutting and drilling will be required.
- All Douglas Fir to be graded per WCLIB Standard Grading Rules.
- Railing to be sent in long stock lengths. All cutting and drilling of rail to be done in the field.
- Includes associated hardware. Hardware to be hot-dipped galvanized or coated to meet ICC AC-257.
- 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 only 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.



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

PROPOSAL

February 28, 2025

To: Bayfield County Snowmobile Trail Administrator

Re: Snowmobile Bridge Budget

- 1 - **24' 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**
 - Deck: **#1 Southern Yellow Pine (.40 ACQ)**
 - Safety Rails: **Horizontal (4" opening)**
 - Installation: **Steel Pilings**
 - Loads: **85 psf live load - 35 psf wind load – 25,000 lbs. vehicle load**
 - FOB: **Bayfield County, WI**
 - Engineered Drawings State Seal: **Wisconsin**

Price-----\$61,000

• Structure (Steel Truss)	\$32,000
• Engineering	\$5,000
• Soil Testing	\$0
• Site Prep	\$5,000
• Abutments	\$12,000
• Labor	\$5,000
• Rip Rap	\$2,000

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

Please call with any questions.

Thank you,

Kory S. Weathers

Guidelines for Applicant

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

Category		Possible Points	Actual Points
1	Condition of the Structure (max of 10 points)		
	Has a certified bridge inspection report that supports the project & demonstrates need (see example, must provide copy of report by August 1 for 2024 only)	10	0
2	Permits (maximum points 4)		
	Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	1
	Permit in hand / Bridge already permitted	3	
3	Funding (maximum points 2) Are other funds already committed?		
	50% or greater from other funding source(s)?	2	
	11% - 49% from other funding source(s)?	1	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 deeded easement on private land or other public land, for <u>all portions of that trail to the nearest road on each side of the bridge</u>	5	
	3-9 year deeded easement on private land or other public land, for <u>all portions of that trail to the nearest road on each side of the bridge</u>	4	
	10 or more year deeded easement on private land or other public land, for <u>just the bridge site</u>	3	
	3-9 deeded easement on private land or other public land, for <u>just the bridge site</u>	2	
	10 or more year land use agreement (LUA, not deeded) on private land or other public land	1	
	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	
	20 miles or more	3	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			10

Comments/Notes:









BAYFIELD COUNTY

Snowmobile Map 2023-24

LEGEND

Snowmobile Trail Symbols

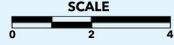
- Groomed Snowmobile Trail
- Plowed Road - Not Groomed
- Lake Trail
- Trail Segment not in Bayfield County

Roads

- Federal
- State
- County
- Town
- Forest
- Private

Other Symbols

- Unincorporated Villages
- Federal Land
- Apostle Islands National Lakeshore & Wild and Scenic River
- State Land
- County Land
- Red Cliff Reservation Boundary
- Township Border
- Lakes
- Rivers
- Sections
- Address Grid
- Trailhead
- Restrooms



FOR
EMERGENCY
MEDICAL
ASSISTANCE,
CALL OR TEXT
911.

Please provide your location, look for the nearest addressing number sign and trail intersections to the nearest roadway.

55050
COUNTY RD.

- RIDE SAFELY
- RIDE SOBER
- STAY ON MARKED TRAILS

Prior to Ice Crossing, check locally for conditions, crossings are not inspected and are used at your own risk.

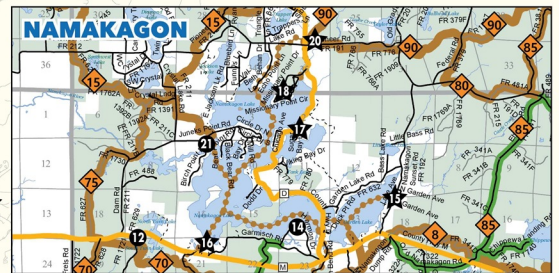
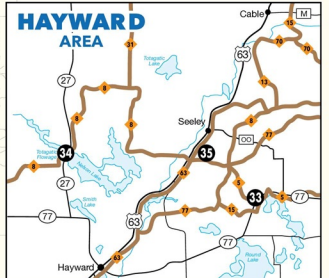
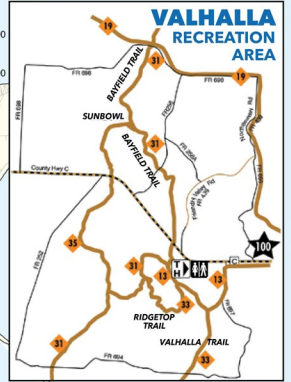
The Bayfield County Snowmobile Alliance assumes no liability as to machines, individuals, or accuracy of trails.

The snowmobile trails you will ride in Bayfield County have been created through the efforts of the Bayfield County Snowmobile Alliance in cooperation with Bayfield County.

Avenza
SYSTEMS INC.
Don't forget the Avenza App!
Use the "free" app on your mobile device to download this trail map while you have Wi-Fi or cell reception and then locate yourself via GPS while you are out on the trails!
DOWNLOAD THE APP NOW!

Rights to all information contained on the Bayfield County Map are reserved by Bayfield County. No information on the Bayfield County Snowmobile Map may be reproduced in any form without the written consent of Bayfield County. Cartography by: Bayfield County Land Records Department. © 2023.

This map is produced and distributed by the Bayfield County Tourism Department in cooperation with the Bayfield County Forestry and Parks Department and the Bayfield County Snowmobile Alliance.



Project Site

Stop by these businesses and express your thanks for their support!

★ = Gas Available

- ★ ASHLAND SUPER 8, Ashland
- ★ PAGAC'S BAR, Ashland
- ★ BARNES TRADING POST, Barnes
- ★ JIM'S BAIT & CONVENIENCE STORE, Barnes
- ★ THE KOFFEE KUP, Barnes
- ★ P.J.'S CABIN STORE, Barnes
- ★ R-C'S DECOY INN, Barnes
- ★ TRACK'S INN, Barnes
- ★ THE BAYFIELD INN, Bayfield
- ★ BRULE RIVER MOTEL & CAMPGROUND, Brule
- ★ KRO BAR AND GRILL, Brule

- ★ AMMO'S EVERGREEN TAVERN, Cable
- ★ CABLE TRIPLE G, Cable
- ★ GARMISH INN, Cable
- ★ HANK'S LANDING, Cable
- ★ LAKEWOODS RESORT & SPORTS BAR, Cable
- ★ THE LOON SALOON, LLC, Cable
- ★ MOGASHEEN RESORT, Cable
- ★ NORTH COUNTRY VACATION RENTALS, Cable
- ★ PIONEER BAR, Cable
- ★ STAUDENMEYER'S FOUR SEASONS RESORT, Cable
- ★ TELEMAR NORTHWOODS LODGING, Cable
- ★ CLAM LAKE JUNCTION, Clam Lake

- ★ FAT RADISH, Cornucopia
- ★ POND-A-ROSA, Cornucopia
- ★ SISKIWIW RIVER CABINS, Cornucopia
- ★ FLYING EAGLE RESORT, Delta
- ★ FROSTY'S OUTPOST, Delta
- ★ PINE POINT LODGE, Delta
- ★ SCENIC DRIVE RESORT, Delta
- ★ HUNTER'S GENERAL STORE, Drummond
- ★ MAM'S Y-GO-BY, Gordon
- ★ HAYWARD POWER SPORTS, Hayward
- ★ NELSON LAKE LANDING RESORT & MOTEL, Hayward
- ★ RUNAMUK RIDES, Hayward

- ★ THE CRANBERRY OVER SUPERIOR, Herbster
- ★ ELSIE BLUE GENERAL STORE, Herbster
- ★ INO BAR & GRILL, Ino
- ★ BIRCH GROVE CAMPGROUND BAR & GRILL, Iron River
- ★ BUSKEY BAY RESORT, Iron River
- ★ LIQUOR IN THE WOODS, Iron River
- ★ O'BRIEN'S C-STORE, Iron River
- ★ THE OTHER PLACE BAR & GRILL, Iron River
- ★ TRI LAKE TIMBERS, Iron River
- ★ LULICH IMPLEMENT, INC., Mason
- ★ NORTHLAND LAWN, SPORT & EQUIPMENT, Mason
- ★ SELL'S PINE CREEK PIT STOP, Moquah

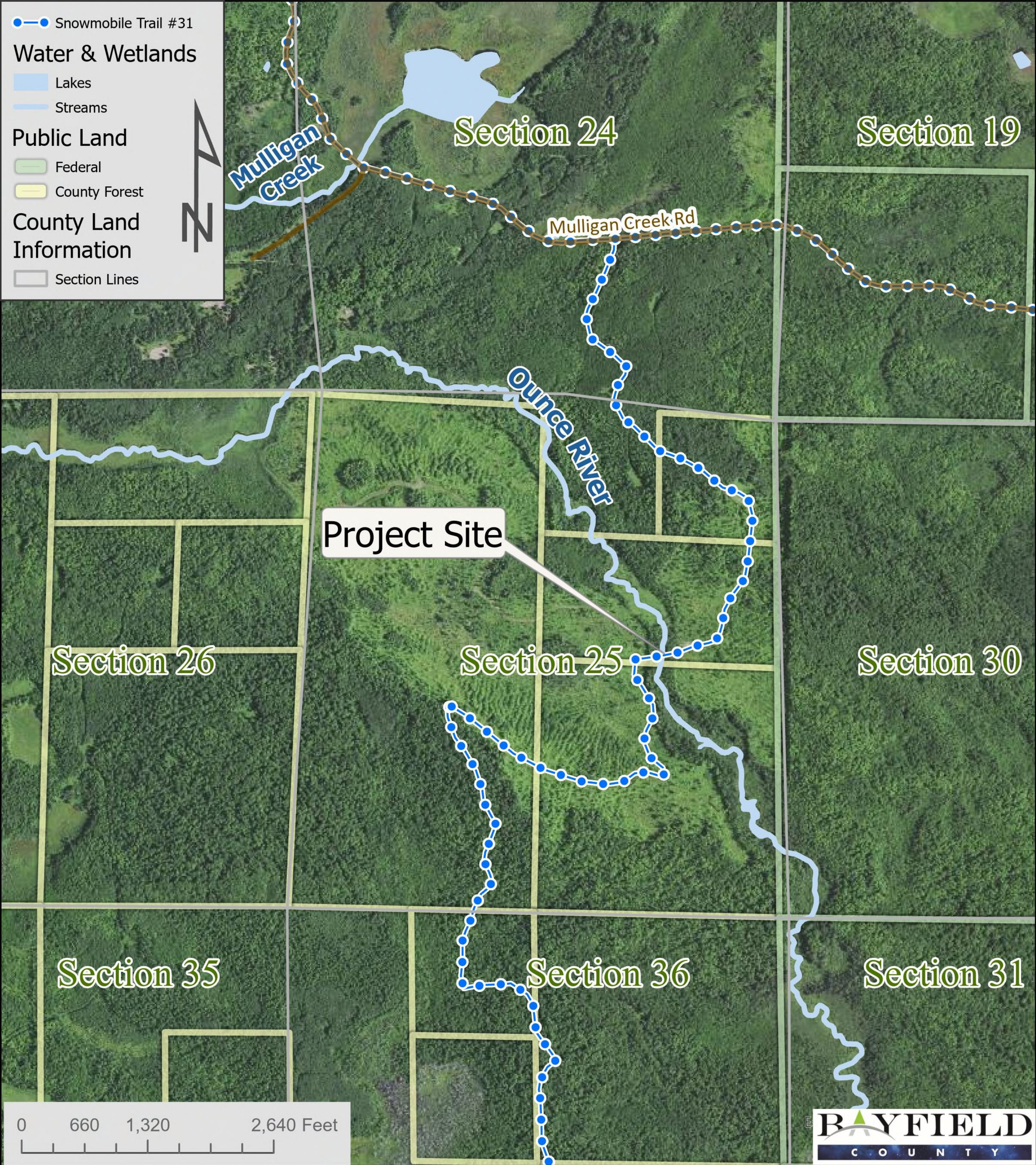
- ★ HOLIDAY PINES RESORT, Port Wing
- ★ JOHNSON'S STORE, Port Wing
- ★ THE COPPER CROW DISTILLERY, Red Cliff
- ★ LEGENDARY WATERS RESORT & CASINO, Red Cliff
- ★ CENEX GAS & CONVENIENCE STORES, Ashland, Iron River, Brule & Washburn
- ★ NAPA AUTO PARTS, Washburn
- ★ PATSY'S BAR & GRILL, Washburn
- ★ SPARKY'S BAR & GRILL, Washburn
- ★ WASHBURN HARDWARE & SPORT, Washburn
- ★ THE WASHBURN INN, Washburn
- ★ VALHALLA VIEW PUB 'N' GRUB, Washburn



Bayfield County Snowmobile Trail #31

Ounce River Bridge - Aerial Imagery Site Map

T.44N R.9W Town of Barnes

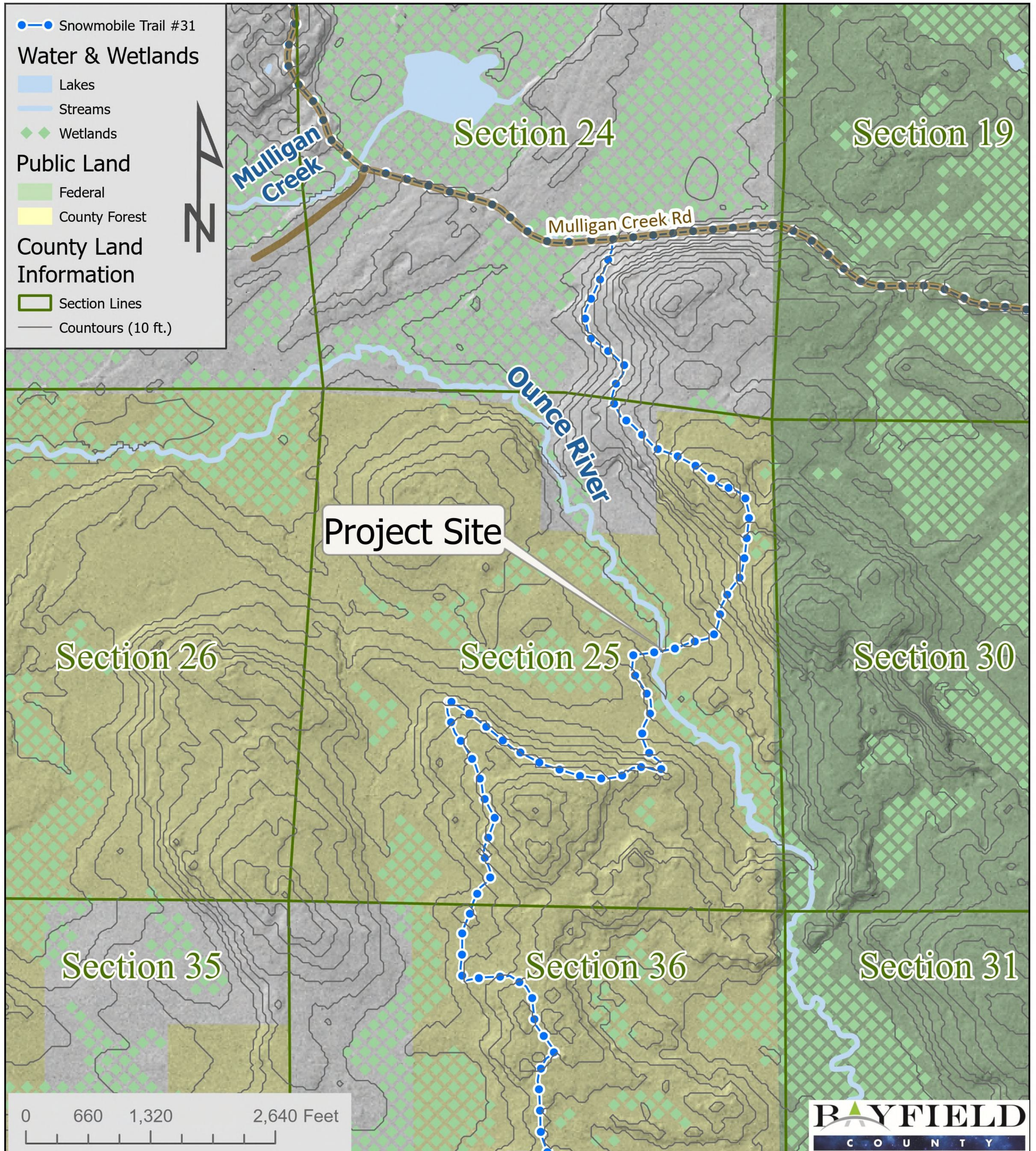


Imagery Source: NAIP 2022

Bayfield County Snowmobile Trail #31

Ounce River Bridge -Topo & Wetland Site Map

T.44N R.9W Town of Barnes



SPECIFICATIONS:

GRADING

ALL DOUGLAS FIR–LARCH TO BE GRADED PER WCLIB STANDARD GRADING RULES.

MATERIALS & TREATMENT

TIMBER PRESERVATIVE TREATMENT SHALL BE IN ACCORDANCE WITH CURRENT AASHTO SPECIFICATIONS. ALL TIMBER SHALL BE COPPER NAPHTHENATE TREATED UNLESS NOTED OTHERWISE.

DECK TO BE 10" DOUGLAS FIR–LARCH, NO.1. S1S1E (9 1/2"), SMOOTH TOP.

BRIDGE RAILPOST & RAILING TO BE DOUGLAS FIR–LARCH, NO.1., S4S

WEAR PLANK TO BE DOUGLAS FIR–LARCH, NO.1., S1S1E (1 1/2" X 11 1/2")

ABUTMENT CAPS & LOWER POST BLOCKS TO BE DOUGLAS FIR–LARCH, NO.1.

BALANCE OF TIMBER TO BE DOUGLAS FIR–LARCH, IN ACCORDANCE WITH DESIGN REQUIREMENTS.

ALL TIMBER IS ROUGH UNLESS OTHERWISE NOTED.

MISCELLANEOUS

ALL TIMBER TO BE CUT TO EXACT LENGTH, DRESSED TO SIZE REQUIRED AND ALL PRACTICAL FRAMING TO BE DONE PRIOR TO TREATMENT.

ALL DECK PLANKS SHALL BE PREDRILLED PRIOR TO TREATMENT.

ALL PLANK FOR DECK PANELS SHALL BE PRECISION END TRIMMED TO LENGTH WITH 1/4" UNDERLENGTH & NO OVERLENGTH TOLERANCE PERMITTED.

DECK PANELS SHALL BE ASSEMBLED WITH 3/8" DIAMETER RING SHANK DOWELS. ALL DOWELS ARE TO BE SIMULTANEOUSLY DRIVEN WITH EQUAL FORCE USING A MECHANICAL PRESS THE FULL LENGTH OF THE DECK, ENSURING ALL HEADS ARE FLUSH WITH THE SURFACE OF THE TIMBER PLANK. MULTIPLE IMPACT TOOLS ARE NOT TO BE USED TO SET DOWELS BECAUSE OF POTENTIAL FOR WOOD FIBER RUPTURE.

DECK PANELS WILL BE DELIVERED TO JOBSITE AFTER BEING FULLY ASSEMBLED AT FABRICATION PLANT.

ALL HARDWARE TO MEET ASTM A307–97 GALVANIZED TO ASTM F2329 (A153). ALL HIGH STRENGTH HARDWARE TO MEET ASTM A449 GALVANIZED TO ASTM F2329 (A153). ALL STRUCTURAL STEEL TO MEET ASTM A36, GALVANIZED TO ASTM A123.

DESIGN DATA:

1) DESIGN OF SUPERSTRUCTURE COMPLIES WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION.

2) DESIGN LOADS:

LIVE LOAD

A) A UNIFORM LIVE LOAD OF 90 psf APPLIED TO THE ENTIRE DECK SURFACE; OR

B) 25,000 LB. VEHICLE. (H12.5)

CONSTRUCTION NOTES:

TIMBER DECK PANELS ARE MARKED IN THE SHOP FOR USE IN FIELD PLACEMENT OF THE PANELS ON THE TIMBER CAPS, e.g. A1, B1, C1 FOR SPAN 1.

DOWEL LAMINATED DECK: PANEL "A" IS PLACED FIRST IN ITS FINAL POSITION ON THE TIMBER CAPS. NEXT DRILL THE 11/16"Ø HOLES INTO THE TIMBER CAP IN EACH END OF PANEL USING THE PRE–DRILLED COUNTERBORED HOLES IN THE PANEL AS A GUIDE AND DRIVE THE 3/4"Ø DOME HEAD DRIVE SPIKES. NEXT PLACE PANEL "B" SO THAT ITS UPPER SPLICE BLOCK IS DIRECTLY OVER THE LOWER SPLICE BLOCK ON PANEL "A" AND DRAW TIGHT TOGETHER. FIELD DRILL THE UPPER AND LOWER SPLICE BLOCKS AND FASTEN WITH 3/8"Ø R.S. NAILS AT SPACES NOTED. THEN DRILL HOLES INTO THE TIMBER CAP IN EACH END OF THE PANEL USING THE PRE–DRILLED COUNTERBORED HOLES IN THE PANEL AS A GUIDE AND DRIVE THE 3/4"Ø DOME HEAD DRIVE SPIKES. ENSURE ALL PANELS ARE DRAWN TIGHT TOGETHER BEFORE ANY DRIVING OCCURS.

ALL HOLES DRILLED IN THE FIELD WHERE SPIKES ARE USED ARE TO BE 1/16" SMALLER THAN SPIKE SIZE.

ALL HOLES DRILLED FOR BOLTS ARE TO BE 1/16" LARGER THAN BOLT SIZE.

HOLES DRILLED FOR 3/4"Ø LAG BOLTS ARE TO BE 9/16"Ø FOR THE THREADED PORTION OF THE LAG BOLT AND 13/16"Ø FOR THE SHANK.

ANY NUT OR MACHINE BOLT HEAD IN DIRECT CONTACT WITH TIMBER TO HAVE ONE PLATE WASHER BETWEEN NUT & TIMBER, OR BOLT HEAD & TIMBER.

ANY NUT OR MACHINE BOLT HEAD IN DIRECT CONTACT WITH STEEL TO HAVE ONE CUT WASHER BETWEEN NUT & STEEL, OR BOLT HEAD & STEEL.

SET THREADS ON ALL BOLTS AT NUT WITH A CENTER PUNCH AFTER TIGHTENING.

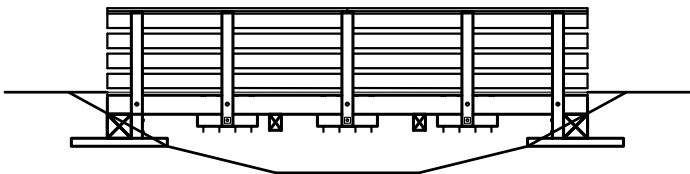
ABUTMENTS TO BE BACKFILLED WITH A CLEAN GRANULAR FILL.

ALL TIMBER CUT OR DRILLED IN THE FIELD SHALL BE TREATED WITH AN APPROVED PRESERVATIVE.

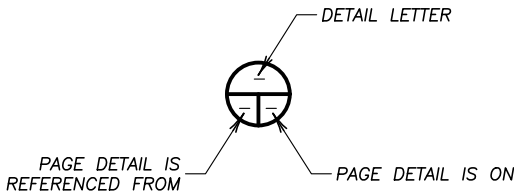
CONSTRUCTION REQUIREMENTS SHALL CONFORM TO STATE SPECIFICATIONS UNLESS OTHERWISE NOTED.

ALTHOUGH ALL PRACTICAL PRE–FRAMING WILL BE DONE PRIOR TO TREATING, SOME CUTTING & DRILLING WILL BE REQUIRED IN THE FIELD.

ST. CROIX COUNTY, WISCONSIN
SNOWMOBILE BRIDGE
SINGLE SPAN PANEL–LAM BRIDGE
Sample for Bayfield County Grant Application



SUPERSTRUCTURE ELEVATION



CALLOUT LEGEND

DO NOT SCALE DRAWINGS

PLAN SHEET INDEX

SHEET	DESCRIPTION
1	COVER SHEET & SPECIFICATIONS
2	GENERAL SUPERSTRUCTURE PLAN & ELEVATION
3	SECTIONS THRU DECK
4	SECTION THRU RAILPOST & DETAILS

COVER SHEET & SPECIFICATIONS

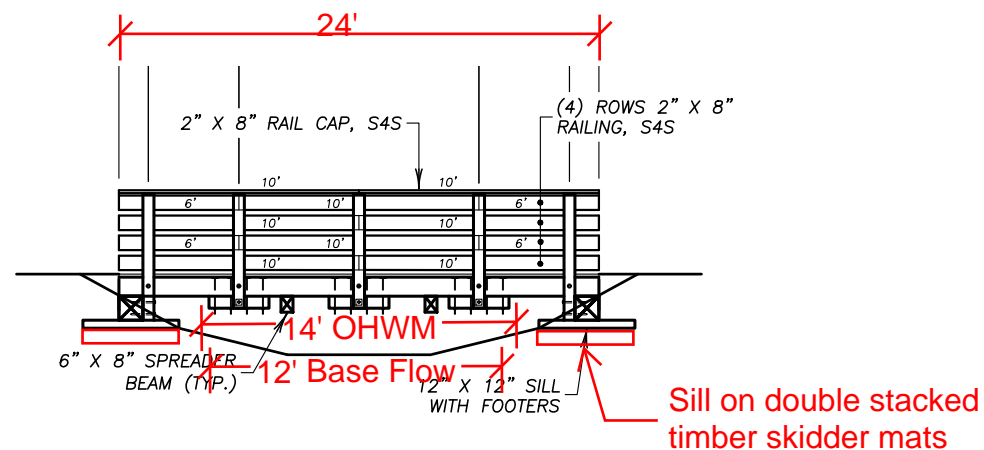
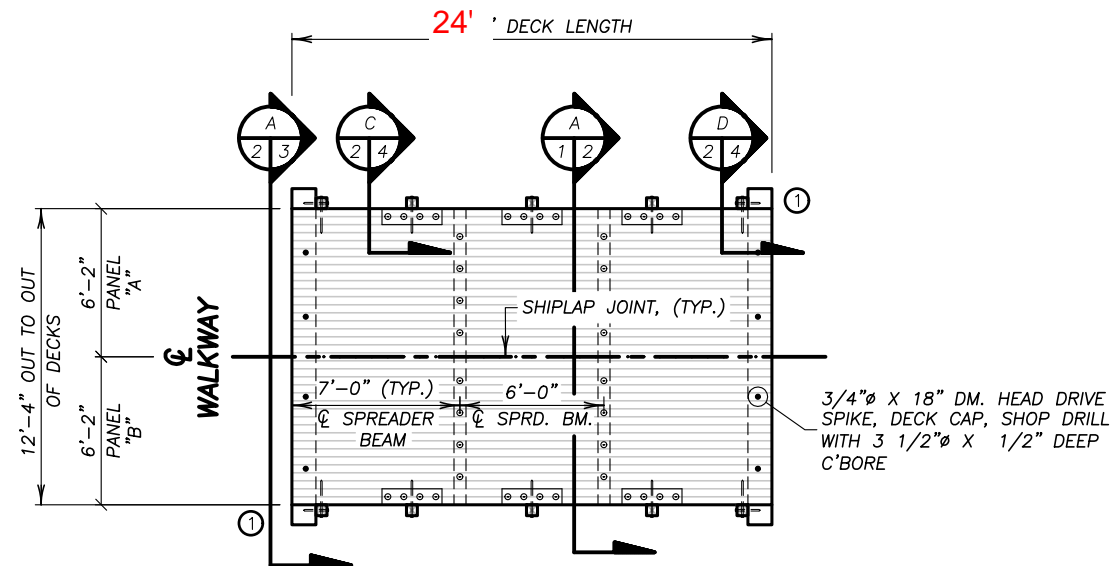
20'–0" TREATED TIMBER SPAN
12'–1" CLEAR WALKWAY
SNOWMOBILE BRIDGE
ST. CROIX COUNTY, WISCONSIN

Wheeler

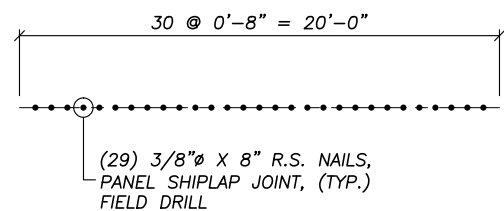
9531 W.78th Street, Ste.100
Eden Prairie, MN 55344
952–929–7854
info@wheeler1892.com
wheeler1892.com

DATE: 8/1/22	TRACKING NO. T22961	SHEET NO.
DWN: WEH	CHK: LAF	ORDER NO. 711–15053 1 OF 4

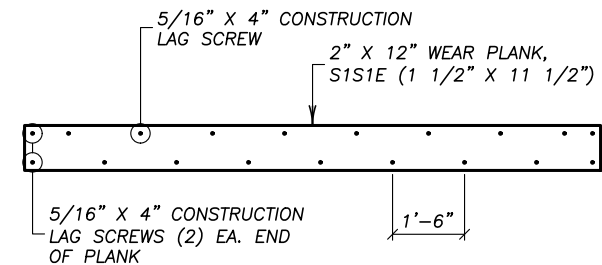
ENGINEER'S SIGNATURE AND SEAL ARE TO ASSUME DESIGN RESPONSIBILITY FOR THE TIMBER SUPERSTRUCTURE AS SUPPLIED & DRAWN BY WHEELER LUMBER, LLC, INDEPENDENT OF ITS FINAL POSITION. THIS DESIGN RESPONSIBILITY IS LIMITED TO THE TIMBER SUPERSTRUCTURE AND DOES NOT INCLUDE ANY DESIGN RESPONSIBILITY PERTAINING TO, BUT NOT LIMITED TO, ROADWAY GEOMETRICS, BRIDGE POSITIONING, HYDRAULIC DESIGN, SCOUR ANALYSIS, PERMITTING PROCEDURES, ERECTION, UTILITY FACILITIES, SOIL CONDITIONS, ETC.



GENERAL SUPERSTRUCTURE PLAN & ELEVATION

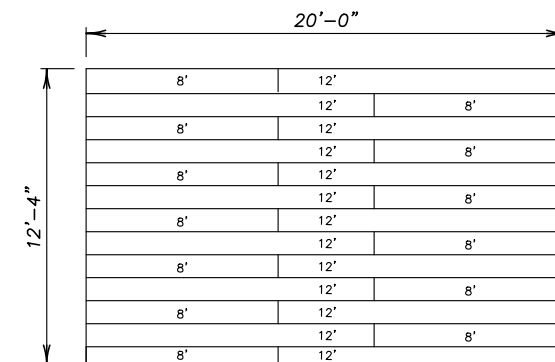


PANEL SHIPLAP JOINT SPACING DETAIL



WEAR PLANK ATTACHMENT DETAIL

USE 13 SCREWS FOR 8' PLANK
USE 19 SCREWS FOR 12' PLANK



SUGGESTED WEAR PLANK LAYOUT

NOTES:

PANEL WIDTHS SHOWN ARE APPROXIMATE. DIMENSIONS GIVEN ARE TO WIDTH OF PANEL.

RAILING & RAIL CAP SHALL BE PROVIDED IN LONG STOCK LENGTHS, CUT TO LENGTH AS REQUIRED IN THE FIELD. SPLICES SHALL BE STAGGERED.

RAILING & WEAR PLANK NOT SHOWN ON PLAN VIEW FOR CLARITY.

- ① FIELD PLACE BRIDGE NAME PLATE/LOAD LIMIT PLATE @ EACH END OF BRIDGE. PLATE SHALL STATE "12.5 TON VEHICLE LOAD LIMIT".

SAMPLE

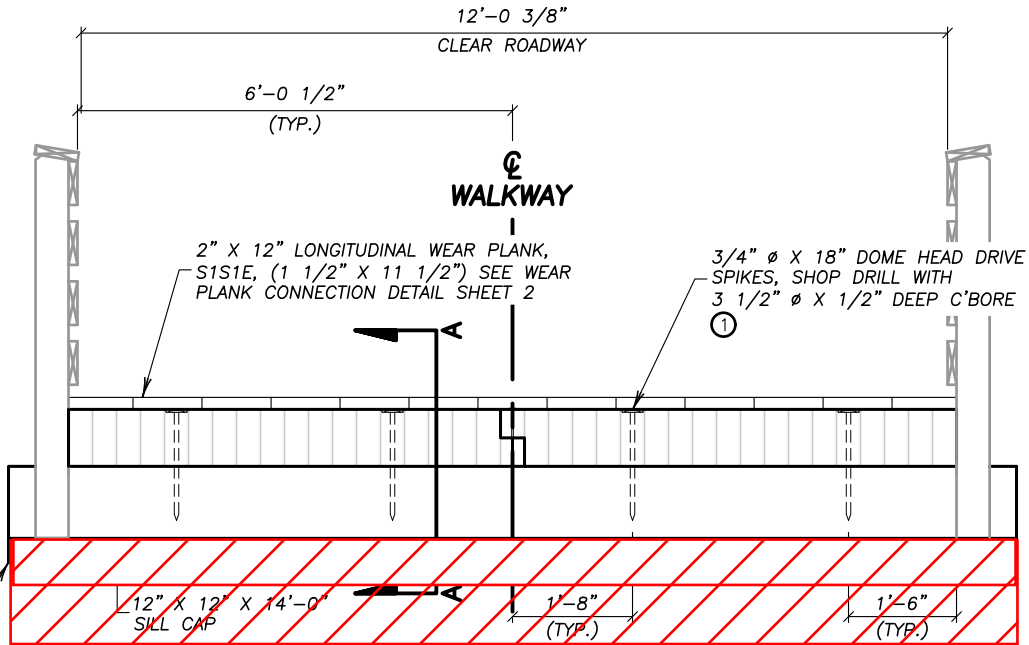
WISCONSIN
DALE DRAVES
PROFESSIONAL ENGINEER
8/31/2022

ENGINEER'S SIGNATURE AND SEAL ARE TO ASSUME DESIGN RESPONSIBILITY FOR THE TIMBER SUPERSTRUCTURE AS SUPPLIED & DRAWN BY WHEELER LUMBER, LLC, INDEPENDENT OF ITS FINAL POSITION. THIS DESIGN RESPONSIBILITY IS LIMITED TO THE TIMBER SUPERSTRUCTURE AND DOES NOT INCLUDE ANY DESIGN RESPONSIBILITY PERTAINING TO, BUT NOT LIMITED TO, ROADWAY GEOMETRICS, BRIDGE POSITIONING, HYDRAULIC DESIGN, SCOUR ANALYSIS, PERMITTING PROCEDURES, ERECTION, UTILITY FACILITIES, SOIL CONDITIONS, ETC.

GENERAL SUPERSTRUCTURE PLAN & ELEVATION			
SNOWMOBILE BRIDGE, ST. CROIX CO., WI			
Wheeler		9531 W.78th Street, Ste.100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com	
		DATE: 8/1/22	TRACKING NO. T22961
DWN: WEH	CHK: LAF	ORDER NO. 711-15053	SHEET NO. 2 OF 4

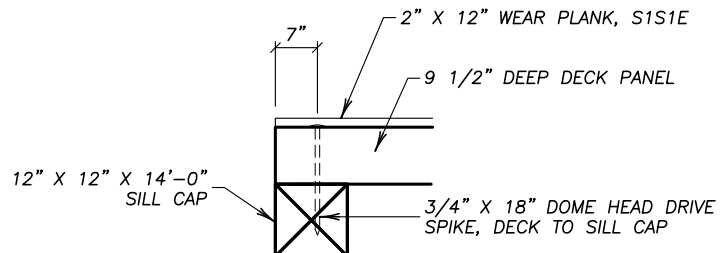
NOTES:

- ① ALL HARDWARE PENETRATING THE TOP OR BOTTOM EDGE OF THE DECK PLANK SHALL PASS THROUGH THE CENTER OF THAT EDGE DIMENSION.
- ② FIELD DRILLED HOLES IN THE LOWER SPLICE BLOCK OF EACH PANEL ARE TO BE DRILLED COMPLETELY THROUGH THE BLOCK TO PREVENT SPLITTING WHEN INSTALLING THE 3/8" R.S. NAILS.
- ③ THE CONTRACTOR SHALL INSTALL NELSON 8" COMPOSITE SHIMS (SUPPLIED BY BRIDGE MANUFACTURER) IN ALL LOCATIONS WHERE THE TOP OF THE SPREADER BEAM DOES NOT CONTACT THE BOTTOM OF THE DECK PANEL UPON TIGHTENING TO ENSURE SNUG FIT ACROSS ENTIRE DECK WIDTH. THE CONTRACTOR SHALL RETIGHTEN ALL NUTS ON THE LAST DAY OF CONSTRUCTION IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO ENSURE ALL NUTS ARE PROPERLY TIGHTENED. SET THREADS ON ALL BOLTS AT NUT WITH A CENTER PUNCH AFTER TIGHTENING.



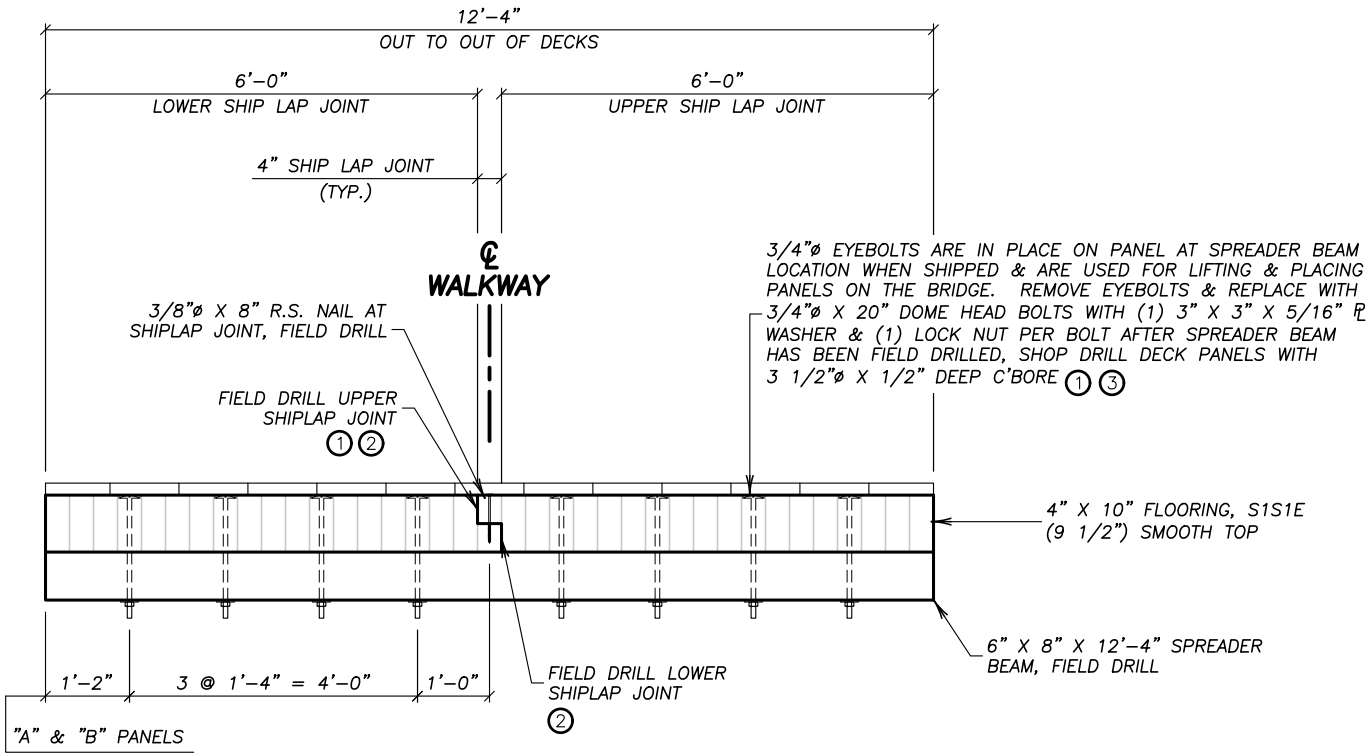
Double stacked
timber skidder
mats

SECTION THRU DECK @ SILL CAP

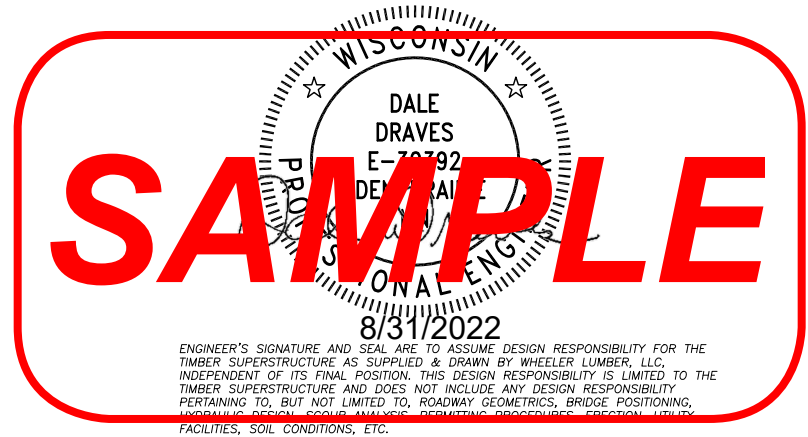


Double stacked
timber skidder
mats

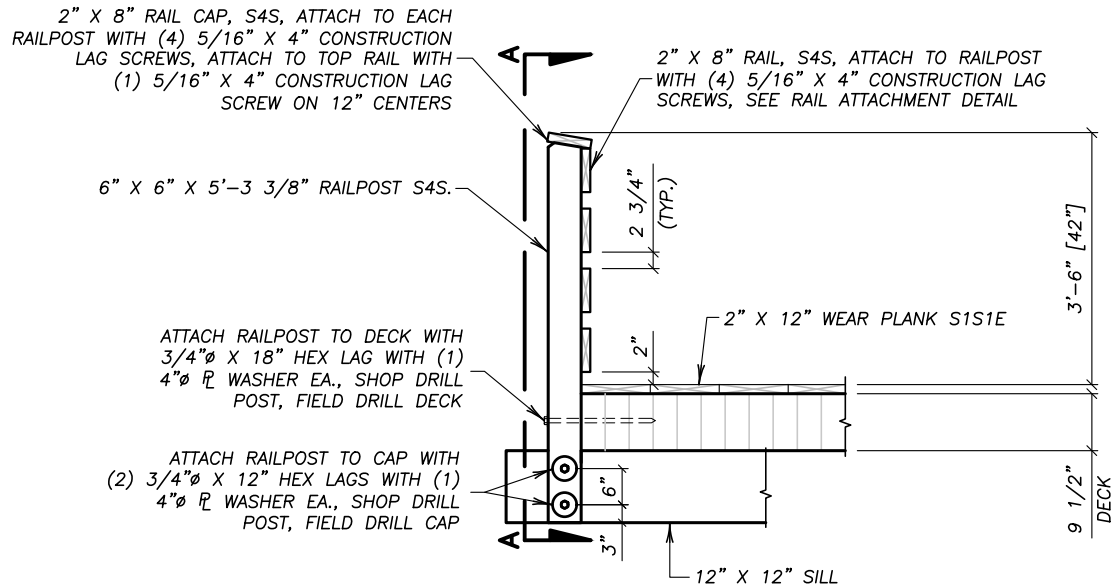
SECTION A-A



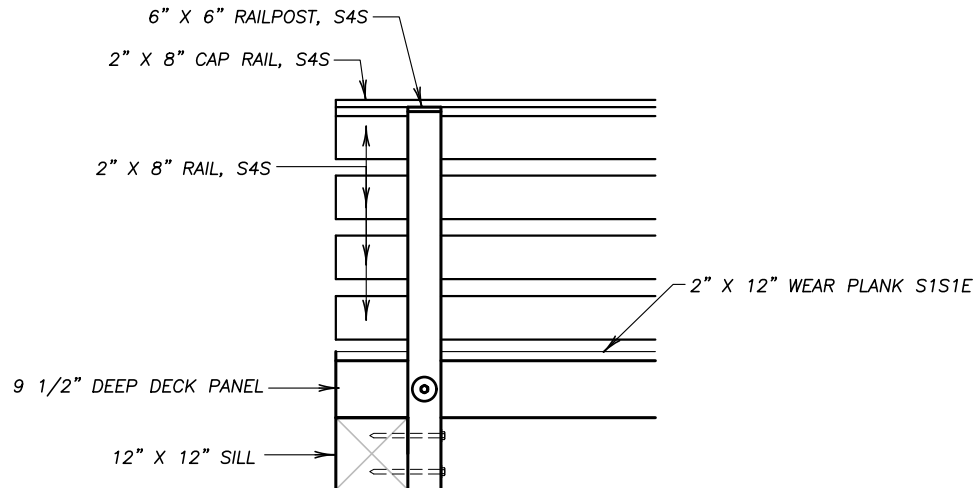
SECTION THRU DECK @ SPREADER BEAM



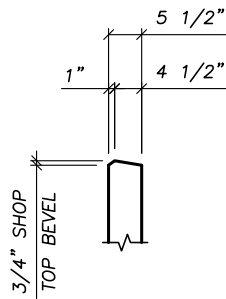
SECTIONS THRU DECK			
SNOWMOBILE BRIDGE, ST. CROIX CO., WI			
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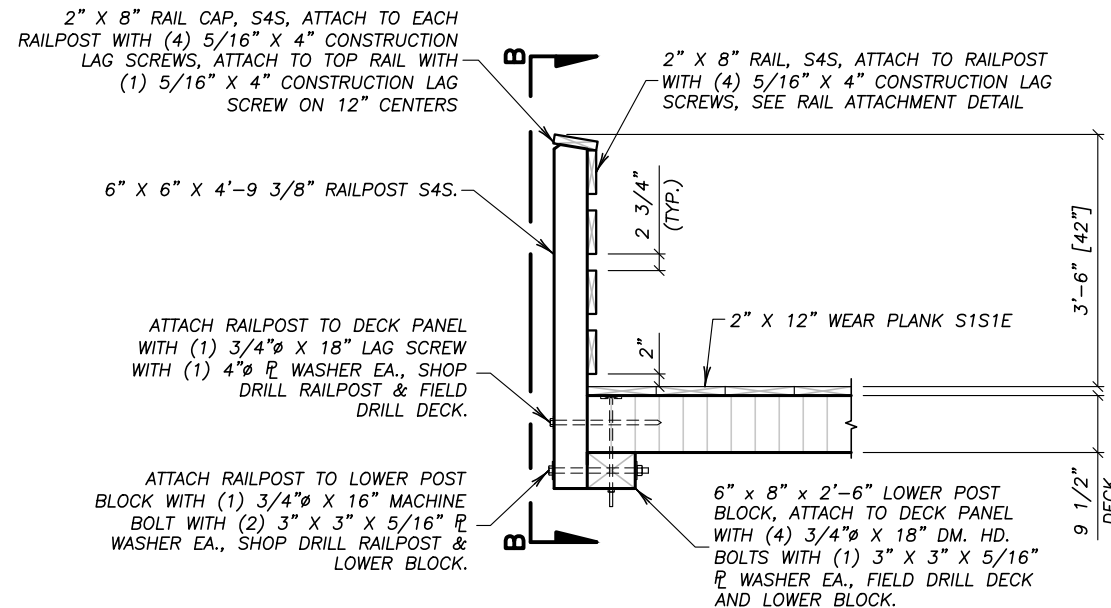
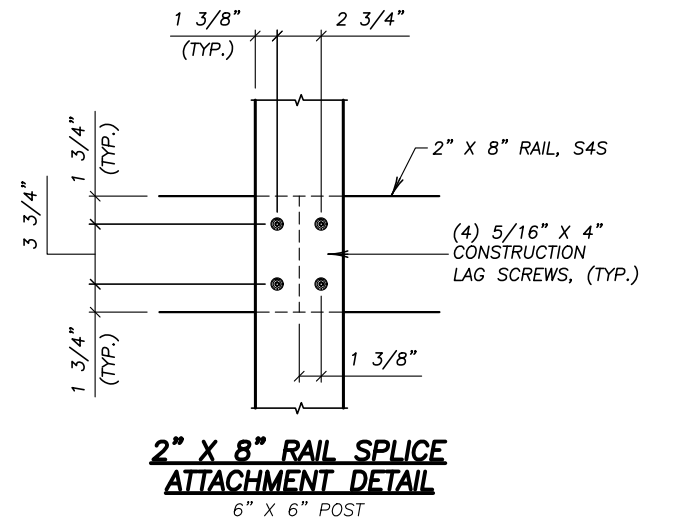
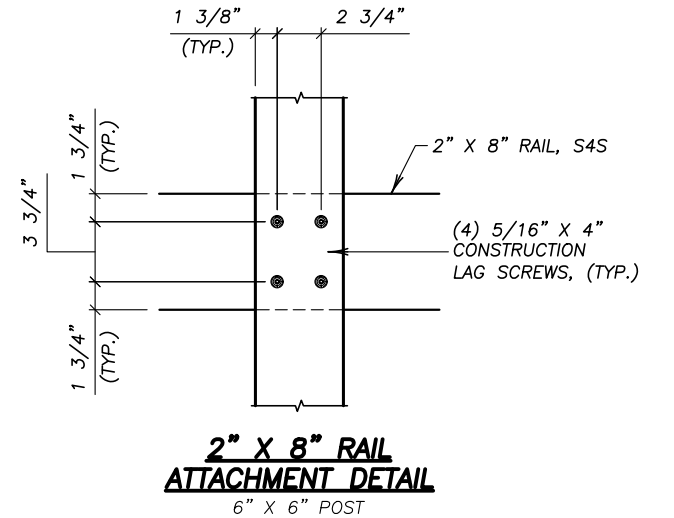
SECTION THRU DECK @ RAILPOST
(AT SILL CAP, TYP. EACH CORNER)



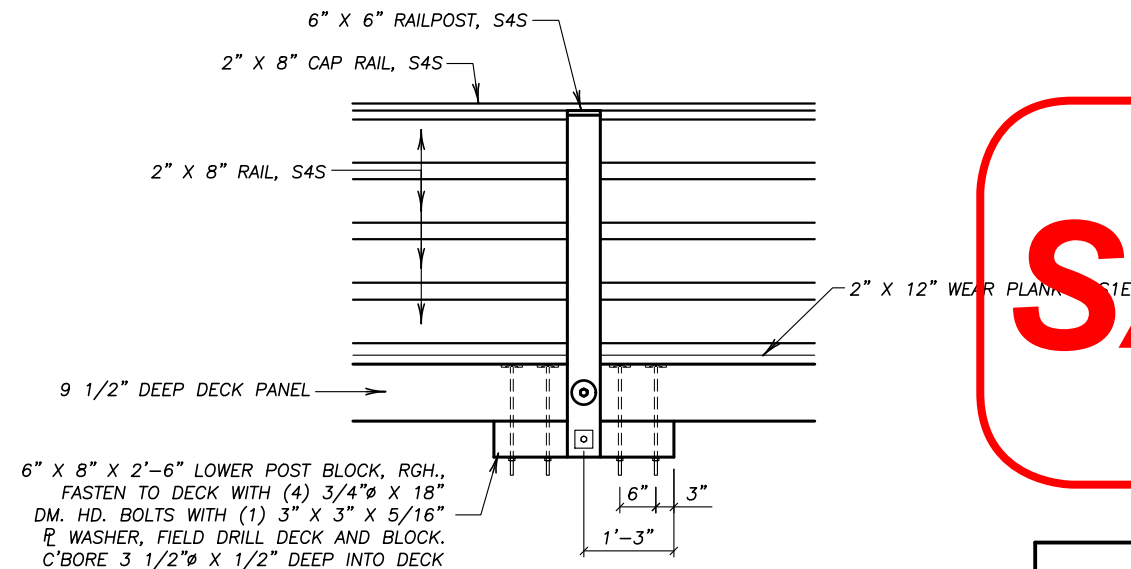
SECTION A-A



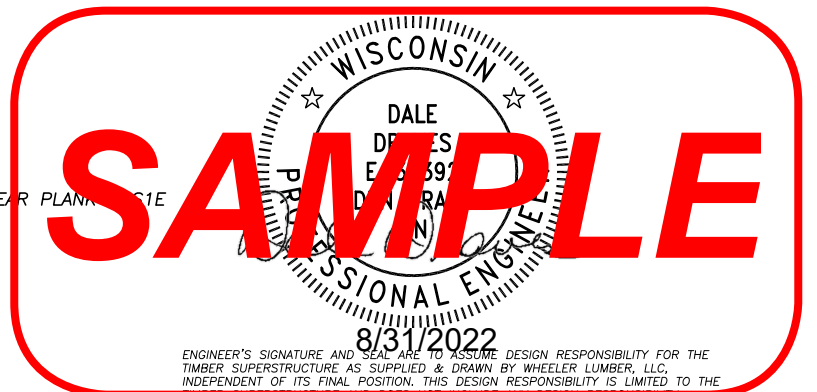
RAILPOST BEVEL DETAIL



SECTION THRU DECK @ RAILPOST



SECTION B-B



SECTION THRU RAILPOST & DETAILS
SNOWMOBILE BRIDGE, ST. CROIX CO., WI

Wheeler

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Eden Prairie, MN 55344
952-929-7854
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DWN: WEH	CHK: LAF	ORDER NO. 711-15053
		4 OF 4