

#6 Ashland West Torch Bridge Replacement

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

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 Ashland County Forestry | | | Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input type="checkbox"/> Select if the same as applicant. | | |
| Chequamegon Nicolet National Forest | | | Check Recipient Name (Name to Appear on Check) Ashland County Treasurer, Tracy Hogland | | |
| Individual Authorized to Act on Behalf of Applicant per Resolution Chris Hoffman | | | Title County Treasurer | | |
| Title Ashland County Forest Administrator | | | Address P.O. Box 155 | | |
| Address P.O. Box 155 | | | Address P.O. Box 155 | | |
| City Butternut | State WI | ZIP Code 54514 | City Butternut | State WI | ZIP Code 54514 |
| Telephone Number 715-769-3777 | | Email Address chris.hoffman@ashlandcountywi.gov | | | |

Section 2: Project Information Required for all Projects

| | | | | | | |
|---|------------------|------------|---------------|-----------|----------------------|--|
| Project Title West Torch Dual Use Bridge Replacement | | | | | Current Funded Miles | New Miles (if applicable) |
| County Ashland | Township 42 N | Range 4 | Section 10 | ¼ ¼ SW | ¼ NW | GPS Coordinates: Lat. 46.136057 Long. -90.860557 |

Project Description Summary

The West Torch bridge is located on Trail 214 (Dead Horse Run) which is an ATV/UTV and snowmobile in Ashland County, on the Great Divide Ranger District of the Chequamegon-Nicolet National Forest. This bridge was inspected by a professional engineer who recommended that the load rating be posted to one ton due to problems with the superstructure and decking. The superstructure for the main span is undersized and is recommended for replacement or rehabilitation. Rehabilitation would include adding 6 more girders matching the existing girder size to provide sufficient structural capacity for the superstructure; additionally, the deck is made from 2x material and would need to be nail-laminated or glulam type decking, with a new upgraded railing system installed. Replacement (desired option) would remove a center pier which is a hazard for debris, and would improve current hazardous vertical alignment which impedes visibility and snowmobile trail grooming ability.

Total \$320,669 50/50 split Snow/ATV Split Cost=\$160,335

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

Estimated Cost

| Maintenance | Acquisition | Insurance | Development | Bridge Rehab. | Trail Rehab. | Total Estimated Cost |
|----------------------------|-------------|-----------|-------------|---------------|--------------|----------------------|
| | | | | \$189,162.50 | | \$189,162.50 |
| Leave Blank – DNR Use Only | | | | | | |
| | | | | \$320,669 | | \$320,669 |

Applicant Certification

| | |
|--|---|
| Printed Name of Authorized Official CHRIS HOFFMAN | Official's Title ASHLAND COUNTY FOREST 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

Date Prepared

4-11-2024

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

Bridge Rehab/Replace New Bridge Reroute with new bridge

| | | | | | | |
|--|------------------|---------------------------|---|-----------------------------------|--|--|
| County Ashland | Township 42 N | Range 4 | Section 10 | 1/4 1/4 SW | 1/4 NW | GPS Coordinates: Lat. 46.136 Long. -90.861 |
| Water Body Name West Torch River | | | Bridge Name West Torch Bridge | | County Inventory Number 091302-214-0.0000 | |
| Funded Trail Name or Number (SNARS if applicable) Dead Horse Run | | | 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 72 feet (with ramps) | | New Bridge/Culvert Size 90 feet | |
| Landowner Where Bridge is Located US Forest Service | | | Telephone Number (715) 663-1801 | | Length of Trail Use Agreement (5 year minimum) NA - Public Land | |
| Current maximum load 2,000 lbs. | | Age of Bridge 48 years | | Bridge Material Treated Timber | | |
| Proposed maximum load 25,000 lbs. | | | | | | |
| Sponsoring Club Name | | | Club Contact | | Telephone Number | |
| 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? 25,000 lbs or more. Designed to H-12.5 loading. | | | |
| What is the weight of your puller & drag/grading equipment? | | | | | | |

What other recreational trail uses are planned for this bridge?
This bridge will be used by ATV/UTVs and snowmobiles.

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? **USFS is exempt from county zoning**
- Yes No Will an H & H (hydrologic and hydraulic) study be required? **study has already been complete and will be part of the permit application**

Bridge Project Detailed Description

This project is for the replacement of an existing snowmobile / ATV trail bridge with a new bridge. The current 72' bridge is five spans. A 2022 critical finding on the bridge resulted in a 1T capacity of the bridge and closure designation to all but snowmobiles. The existing bridge superstructure is dramatically undersized for the intended loading, though the component conditions are in fair to good condition.

The proposed replacement bridge is fully designed and engineer-stamped with contract documents fully assembled. A geotechnical investigation & report and an H&H analysis & report have both been completed for the project. The proposed bridge is a 90' prefabricated single-span truss on concrete abutments anchored with helical piles. The proposed bridge notably improved hydraulic capacity and clearance at the crossing, remedies approach vertical alignment issues, and meets all trail user needs.

Regarding rehabilitation: Rehab is not desired due to age of existing structure, and no fix to other problematic conditions of the existing bridge. The current bridge is nearly 50 years old, and rehab would extend bridge life by ~15-25 years, at perhaps half the cost of replacement. Rehab would not fix the current vertical alignment, which is hazardous with dramatically ramped approach spans at either end. These approaches impede sighting distance of trail users, and pose a challenge for groomers. Additionally, rehab would not remove the current center pier which poses a debris catching hazard during flood conditions. Replacement alleviates all these concerns, and provides a lifespan of 50-75 years.

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>90' span x 12' clear</u> | <u>90' span x 12' clear</u> |
| Bridge Manufacturer: | <u>TBD</u> | <u>Contech</u> | |
| Design Weight Load | | <u>25,000 lbs. (H12.5 loading)</u> | <u>25,000 lbs.</u> |
| Cost of Structure: | 1. Engineering | \$ <u>49,560 (complete)</u> | \$ <u>49,560 (complete)</u> |
| | 2. Structure | \$ <u>232,000 (installed superstructure,</u> | \$ <u>168,900 (materials only)</u> |
| | Subtotal | \$ <u>281,560</u> \$232,000 deck, & wearing surface | \$ <u>218,460</u> \$168,900 |

| | | 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 | | \$ <u>0 (complete - see above)</u> | \$ _____ |
| 2. Site Preparation | | \$ <u>82,943</u> | \$ <u>82,943</u> |
| 3. Abutments | | \$ <u>15,500</u> | \$ <u>15,500</u> |
| 4. Pilings/Piers | | \$ <u>32,000</u> | \$ <u>32,000</u> |
| 5. Approaches | | \$ <u>14,031</u> | \$ <u>14,031</u> |
| 6. Riprap | | \$ <u>7,295</u> | \$ <u>7,295</u> |
| 7. Labor | | \$ <u>NA - all costs are materials installed</u> | \$ _____ |
| 8. Equipment Rental | | \$ <u>NA - all costs are materials installed</u> | \$ _____ |
| 9. Culverts | | \$ <u>0 (none present)</u> | \$ _____ |
| 10. H & H Study | | \$ <u>3,930 (complete)</u> | \$ <u>3,930 Complete</u> |
| 11. Wetland Delineation | | \$ <u>3,490 (complete)</u> | \$ <u>3,490 Complete</u> |
| 12. Other <u>15% Contingency</u> | | \$ <u>57,656</u> | \$ <u>57,656</u> |
| | | \$151,769 | |
| | Subtotal | \$ <u>216,845</u> Please also see attached | \$ <u>216,845</u> \$151,769 |
| | Total Cost | \$ <u>498,405</u> detailed engineer's estimate | \$ <u>435,305</u> \$320,669 |

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 \$ _____

Completed costs have been paid by the USFS and are not being asked for reimbursement

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 | 10 |
| 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 |
| 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 | |
| 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 | 1 |
| | 20 miles or more | 3 | |
| | No other snowmobile trails connect. Explain: | 4 | |
| DEDUCTIONS | | | |
| 6 | County Active Project Deduction (maximum deduction 1 point) A snowmobile active project is one that has exceeded it's initial grant period. | | |
| | Two or more active projects - deduct 1 point | -1 | |
| GRAND TOTAL | | | 20 19 |

Comments/Notes:

| TRAIL BRIDGE INSPECTION WORKSHEET | | | | | | | | | | Date: | 10/16/2020 | Total Time: for Insp. | 30 min | |
|-----------------------------------|--|---|---|----------------------|---|-------------------------|------------|--|---------------|-----------------------|------------|--------------------------|---------|---------|
| Bridge Name | | Bridge # | | Year Built | | Plan Number: | | Type of Inspection (circle one) | | | Routine | X | Initial | Special |
| West Torch Bridge Rt 25 | | 091302-214-0.0000 | | 1975 | | | | | | | | | | |
| Feature Crossed | | Location: | | Lat. 46.136 | | Long. -90.861 | | Fracture Critical | | Underwater | | | | |
| West Torch River | | Twship 42N | | Sec 10 | | Range 4W | | Bridge Posting: | | Load Rating Required? | | | | |
| Forest | | District | | Designated Use | | Design Load: | | | | | | | | |
| CNNF | | Great Divide | | ATV / Snowmobile | | | | | | 5 Tons | | | | |
| INFRA INPUTS (NBI) | Wear Surface Cond. | Deck Cond | User Barriers | Superstr Cond (59) | Substr Cond (60) | Channel Protection (61) | Aprch Cond | Waterway Adq (71) | Remain Life | ADT | | | | |
| | 6 | 6 | 4 | 6 | 7 | 8 | G | 6 | 25 | | | | | |
| | Appraisal- Bridge Elements Meet TMO? (Yes/No/Not Eval) | | | | Appraisal- Approaches Meet TMO? (Yes/NO/Not Eval) | | | | TMO Comments: | | | | | |
| | Deck Width | User Barrier | Grade | Alignment | Grade | Width | Other | | | | | | | |
| Y | N | Y | Y | Y | Y | | | | | | | | | |
| Directions to bridge | | Accessible with pickup from HWY 77, take FR 339 S to FR 464 (gated), the right on Dead Horse trail to bridge. | | | | | | | | | | | | |
| COMPONENT | | CODING | COMMENTS AND SKETCHES | | | | | CHECK TRAIL BRIDGE CATEGORY (select one) | | | | | | |
| | | | Refer to item number in comments. Use additional sheets if necessary. | | | | | Complex | | | | | | |
| WEARING SURFACE | | 6 | Moderate wear | | | | | Any truss, suspension, multi-span, and non-timber/log bridge; and/or determined by Regional Bridge Program Manager. | | | | | | |
| 58 | DECK AND FLOOR SYSTEM | 6 | | | | | | | | | | | | |
| A | Structural Slab | | | | | | | | | | | | | |
| B | Transverse Decking | G | | | | | | | | | | | | |
| C | Expansion Joints | | | | | | | | | | | | | |
| D | Drainage Devices | | | | | | | | | | | | | |
| USER BARRIERS | | 4 | Moderate checking double layer of 2x10's | | | | | Major | | | | | | |
| 59 SUPERSTRUCTURE | | 6 | | | | | | | | | | | | |
| A | Girders & Stringers | G | | | | | | | | | | | | |
| B | Floor Beams | | | | | | | | | | | | | |
| C | Bearing Devices | | | | | | | | | | | | | |
| D | Expansion Devices | | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Extremely wobbly, especially upstream side where decking supports are cracked. Very weak design. | | | | | Minor | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking throughout. Some wider checks on fascia beams. Moderate bear damage on ramp stringer ends. | | | | | Additionally | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | End sills are buried | | | | | Major Trail Bridges which develop significant structural defect and/or load limitations could be moved to complex classification | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Minor Trail bridges, determined to have increased complexity or user safety concerns, could be classified as complex bridge structures. e.g. Short span over grand canyon. | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | GEOMETRICS | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Overall Length 74.3' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Number of Main Spans 2 | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Number of Approach Spans 2 | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Clear Span Approach = 17.5' Main = 19.5' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Overall Deck Width 12.2' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Horiz. Clear Width 11.8' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Tread Width | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Deck Type/Mat'l Treated timber plank 1.5"x9.25" | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Rail/Curb Height 44" Timber Rail | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Superstructure Type Stringer / Multi-Beam | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Stringer Size Main = 6"x14" @ 34" OC Appr=3.5"x13.5" @ 34", 44", 34" | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Number of Stringers 4 | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Stringer Mat'l SS Treated timber (DF) | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Foundation Type/Mat'l Timber piling | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Top of Deck Height 10' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Stream Width ~30' | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| 60 SUBSTRUCTURE | | 7 | Minor checking | | | | | Stream Skew 0 | | | | | | |
| A Abutments | | NOB | | | | | | | | | | | | |
| B Piers | | G | | | | | | | | | | | | |
| C Bents | | | | | | | | | | | | | | |
| D Pile Caps | | G | | | | | | | | | | | | |
| E Piling | | G | | | | | | | | | | | | |
| SIGNATURE CERTIFIES FOR ALL PAGES | | | | | | | | | | | | | | |
| Team Leader (signature) | | | | Team Members (names) | | | | Others Present | | | | | | |
| | | | | | | | | | | | | | | |

| | COMPONENT | CODING | COMMENTS AND SKETCHES |
|---|--------------------------------------|----------|---|
| | | | Refer to item number in comments. |
| | | | Use additional sheets if necessary. |
| | CHANNEL & BANK PROTECTION | 8 | Well vegetated, good alignment, no debris. D |
| A | Channel Alignment | | |
| B | Channel Scour | | |
| C | Drift | | |
| D | Vegetation | | |
| E | Slope Protection | | |
| F | Streambank Erosion | | |
| G | | | |
| | APPROACHES | G | |
| A | Alignment | G | |
| B | Surface Condition | F | Large pile of sand on end of south ramp. |
| C | Embankment / Shoulders | G | |
| D | Guardrails | | |
| E | Warning Devices | | |
| F | Signing | G | 5 Ton Weight Limit signs present. OM's present. |
| G | Utilities | | |
| H | | | |
| | WATERWAY ADEQUACY | 6 | |
| | OTHER COMPONENTS | | |
| WORK ITEMS AND REPAIRS NEEDED | | | |
| Refer to item number in comments. | | | |
| Use additional sheets if necessary. | | | |
| Replace railing with one that meets current standards. Remove sand from south ramp. | | | |

Bratsch, Jenifer - FS, WI

From: Eric Sturm <Eric.Sturm@ContechES.com>
Sent: Wednesday, March 27, 2024 1:11 PM
To: Bratsch, Jenifer - FS, WI
Cc: Lemahieu, Tyler - FS, WI
Subject: RE: [EXTERNAL] RE: [External Email]CONTECH

Jen,

Here is the budget pricing for this project.

Continental Pedestrian Bridge
Length – 90'-0" Long
Width – 12'-0" Wide (Clear width between wood rub rails)
Style – Connector H-section
Finish – Self Weathering Steel
AASHTO LRFD
90 PSF Live Load
H-12.5 (25,000 LB) Vehicle Load
Nominal 3-inch-thick treated wood decking
Nominal 2-inch thick treated wood wearing surface longitudinally
Steel Toe Rail
Nominal 5/4x6 IPE Wood Rub Rail
Horizontal Steel Safety Rails
90 Durometer Fabric Reinforced Bearing Pads with Teflon and Stainless-Steel
Steel Cover Plates at both ends of the bridge

Bridge to be shipped in Two sections with a total lifting weight = +/- 53,600 LBS

Total = \$168,900.00 Plus Tax if applicable (delivery to Glidden, WI included)

Please let me know if you have any questions or need anything else for this project.

Thanks,

Eric W Sturm

Bridge Consultant

CONTECH Engineered Solutions LLC

6441 Enterprise Lane, Suite 116 | Madison, WI 53719

Cell: 608-215-3937 Fax: 608-216-9865

www.conteches.com

esturm@conteches.com

From: Bratsch, Jenifer - FS, WI <Jenifer.Bratsch@usda.gov>
Sent: Thursday, March 21, 2024 9:27 AM
To: Eric Sturm <Eric.Sturm@ContechES.com>

FINAL OPINION OF PROBABLE CONSTRUCTION COST - WEST TORCH BRIDGE

Chequamegon-Nicolet National Forest Trail Bridge Design

Chequamegon-Nicolet National Forest

2/14/2024

USDA, Forest Service, Eastern Region - Region 9

Estimate based on Spring 2024 bid.

| ITEM | DESCRIPTION | QUANTITIES | UNIT | UNIT COST | COST |
|--------|--|------------|-------------|-----------------------------------|------------------------|
| 15101 | Mobilization | 1 | Lump Sum | \$12,000.00 | \$12,000.00 |
| 15201 | Construction survey and staking, method II, tolerance class A | 1 | Lump Sum | \$1,600.00 | \$1,600.00 |
| 15205 | Bridge survey and staking | 1 | Lump Sum | \$500.00 | \$500.00 |
| 15212 | Slope, reference, and clearing and grubbing stakes; method II, tolerance class A | 1 | Lump Sum | \$3,200.00 | \$3,200.00 |
| 15217 | Centerline reestablishment, Precision 0.06' | 1 | Each | \$640.00 | \$640.00 |
| 15401 | Contractor testing | 1 | Lump Sum | \$5,400.00 | \$5,400.00 |
| 15713 | Soil erosion and pollution control | 1 | Lump Sum | \$10,400.00 | \$10,400.00 |
| 20158 | Clearing and Grubbing | 1 | Lump Sum | \$18,300.00 | \$18,300.00 |
| 20301 | Removal of bridge, disposal method A | 1 | Lump Sum | \$5,000.00 | \$5,000.00 |
| 20407 | Roadway excavation | 90 | Cubic Yard | \$60.00 | \$5,400.00 |
| 20411 | Unclassified borrow excavation | 10 | Cubic Yard | \$100.00 | \$1,000.00 |
| 20414 | Conserved Top Soil | 1 | Lump Sum | \$1,000.00 | \$1,000.00 |
| 20417 | Embankment construction, compaction placement method A | 110 | Cubic Yard | \$60.00 | \$6,600.00 |
| 20701 | Earthwork geosynthetics, type geotextile, class 1, type A | 185 | Square Yard | \$15.00 | \$2,775.00 |
| 20801 | Structure excavation, type bridge | 69 | Cubic Yard | \$64.00 | \$4,416.00 |
| 25103A | Placed riprap, class 1 | 35 | Square Yard | \$53.00 | \$1,855.00 |
| 25103B | Placed riprap, class 2 | 68 | Square Yard | \$80.00 | \$5,440.00 |
| 30208 | Aggregate surface course, method 2 | 100 | Ton | \$53.00 | \$5,300.00 |
| 55105 | Helical pile, in place | 160 | Foot | \$200.00 | \$32,000.00 |
| 55201 | Structural concrete, Class AE, Type IA | 12.6 | Cubic Yard | \$1,000.00 | \$12,600.00 |
| 55402 | Reinforcing steel, 60ksi | 1 | Lump Sum | \$2,900.00 | \$2,900.00 |
| 55503 | Pre-Fabricated Steel Bridge | 1 | Lump Sum | \$232,000.00 | \$232,000.00 |
| 61907 | Remove and reset metal gate | 1 | Each | \$500.00 | \$500.00 |
| 62404 | Placing conserved topsoil, 4 inch depth | 229 | Square Yard | \$1.10 | \$251.90 |
| 62550 | Turf establishment | 1 | Lump Sum | \$10,000.00 | \$10,000.00 |
| 63305 | Sign, aluminum panel, type engineer grade sheeting | 34.1 | Square Foot | \$21.00 | \$716.10 |
| 63306 | Post, wood 4"x4" | 72 | Foot | \$6.00 | \$432.00 |
| 63307A | Object marker, type 2 | 4 | Each | \$32.00 | \$128.00 |
| 63307B | Object marker, type 3 | 4 | Each | \$48.00 | \$192.00 |
| 63307C | Object marker, type 4 | 4 | Each | \$48.00 | \$192.00 |
| 63309 | Remove and reset sign | 1 | Each | \$21.00 | \$21.00 |
| 63312 | Remove signs and posts | 1 | Lump Sum | \$360.00 | \$360.00 |
| 63501 | Temporary traffic control | 1 | Lump Sum | \$650.00 | \$650.00 |
| | | | | CONSTRUCTION COST SUBTOTAL | \$383,769.00 |
| | | | | CONSTRUCTION CONTINGENCY | 15% \$57,565.35 |
| | | | | CONSTRUCTION COST TOTAL | \$441,334.35 |

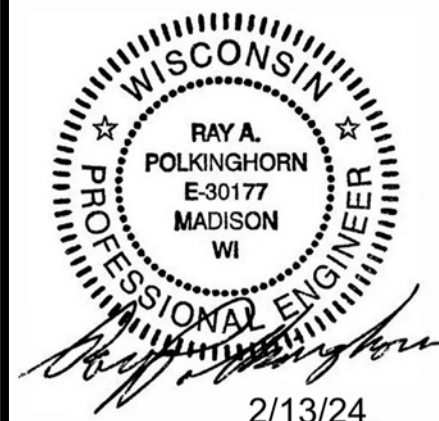


**United States Department of Agriculture
Forest Service**

**WISCONSIN
ASHLAND COUNTY
(R9) NORTHEAST REGION
CHEQUAMEGON-NICOLET NATIONAL FOREST
GREAT DIVIDE RANGER DISTRICT OFFICE**

STRUCTURE NO. 091302-214-0.0000, W. TORCH TRAIL BRIDGE

| INDEX OF SHEETS | | |
|-----------------|--|-----------|
| SHEET | SHEET TITLE | DATE |
| G-01 | COVERSHEET | 2/13/2024 |
| C-01 | GENERAL NOTES AND CONTROL POINTS | 2/13/2024 |
| C-02 | QUANTITIES AND ITEM TABLES | 2/13/2024 |
| C-03-04 | ITEM TABLES | 2/13/2024 |
| C-05 | OVERVIEW AND TEMPORARY TRAFFIC CONTROL | 2/13/2024 |
| C-06 | EROSION CONTROL PLAN AND TYPICAL TRAIL SECTION | 2/13/2024 |
| C-07 | PLAN AND PROFILE | 2/13/2024 |
| C-08-11 | DETAILS | 2/13/2024 |
| C-12-14 | CROSS SECTIONS | 2/13/2024 |
| S-01 | STRUCTURE GENERAL PLAN | 2/13/2024 |
| S-02 | GEOTECHNICAL BORING LOGS | 2/13/2024 |
| S-03 | STRUCTURE GENERAL NOTES AND REBAR PLAN | 2/26/2024 |
| S-04-05 | ABUTMENT PLAN | 2/13/2024 |
| S-06 | BRIDGE SECTION AND HELICAL ANCHOR DETAIL | 2/26/2024 |

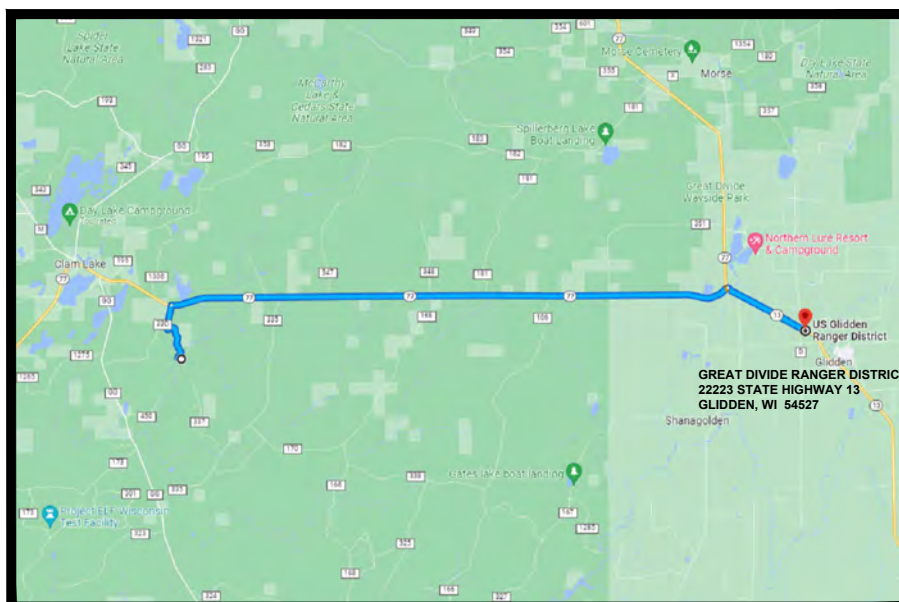
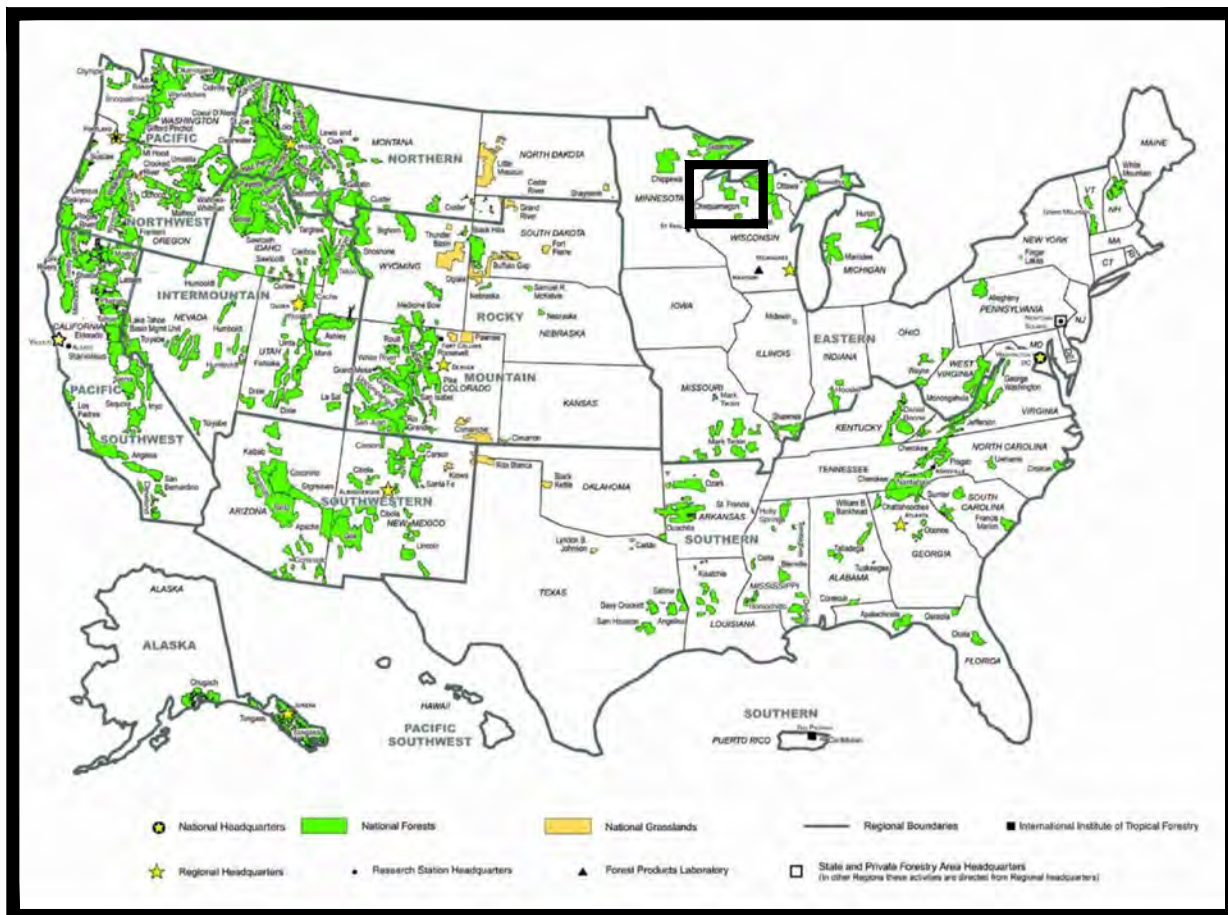


STAMP FOR SHEETS C-01 THROUGH C-14.



STAMP FOR SHEETS S-01 THROUGH S-06.

ART JOHNSTON, LLC
37 N. 93RD AVE. W
DULUTH, MN 55808
715-360-6629



TRAVEL DIRECTIONS:
FROM THE GREAT DIVIDE RANGER DISTRICT OFFICE, TRAVEL NORTHWEST ON STATE HIGHWAY 13 N TOWARD KEMPFF ROAD FOR 1.8 MILES. TURN LEFT ONTO WI-77 WEST FOR 11.7 MILES. TURN LEFT ONTO FOREST RD 339 FOR 0.4 MILES. TURN LEFT ONTO TRAIL 214 FOR 1.0 MILE, SHANAGOLDEN, WI 54517. LATITUDE AND LONGITUDE: 46.136057, -90.860557 (46° 08' 10", -90° 51' 38").

RECOMMENDED BY:

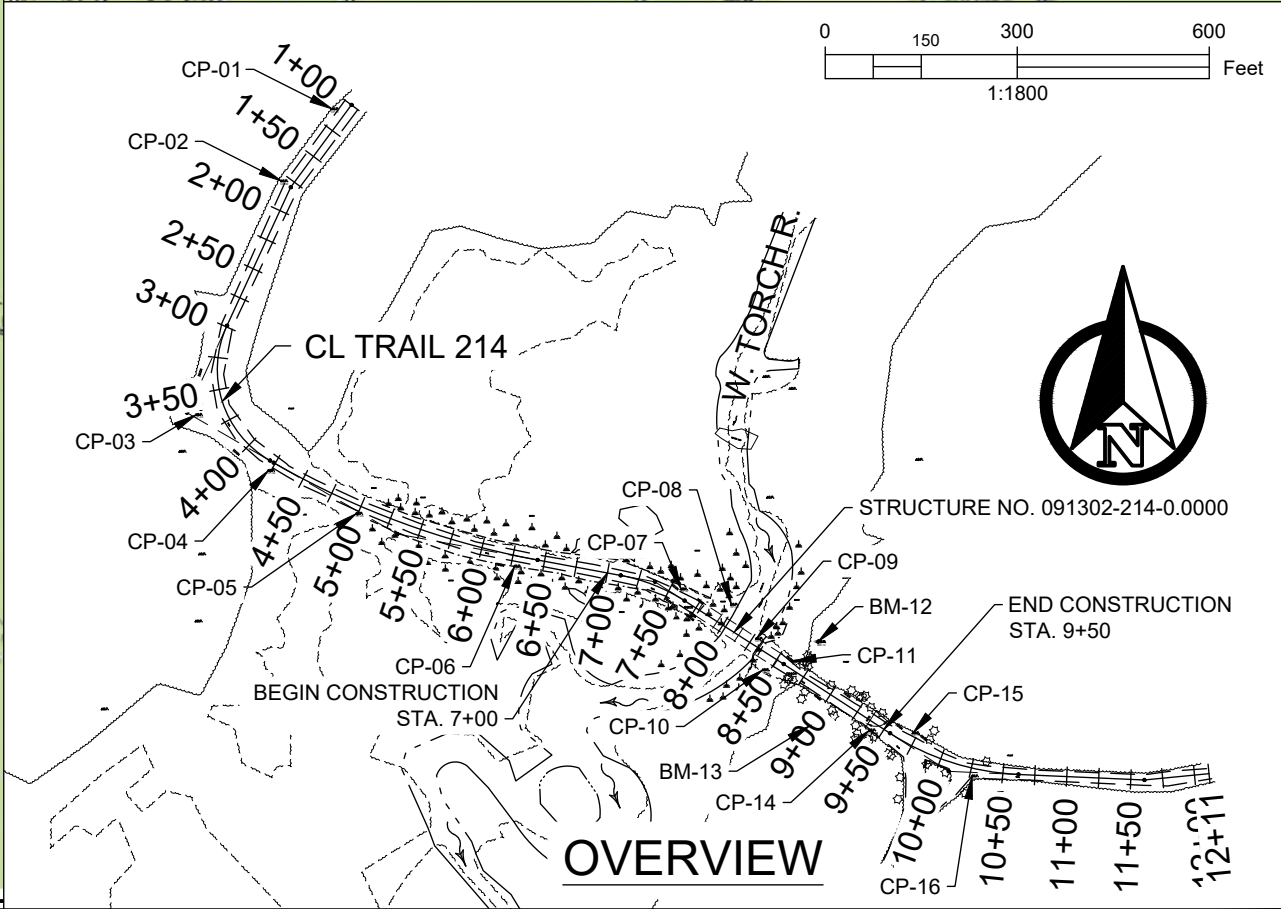
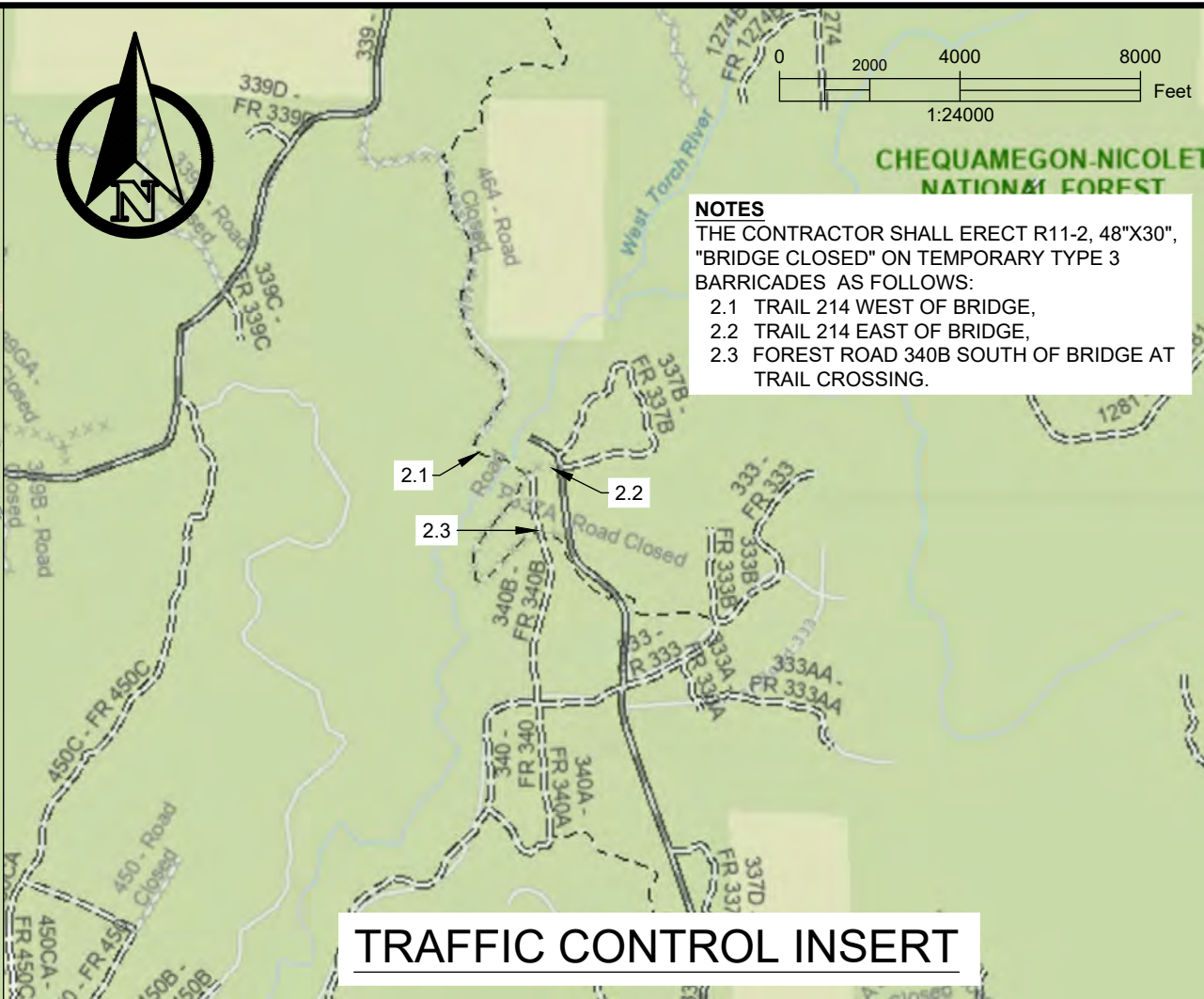
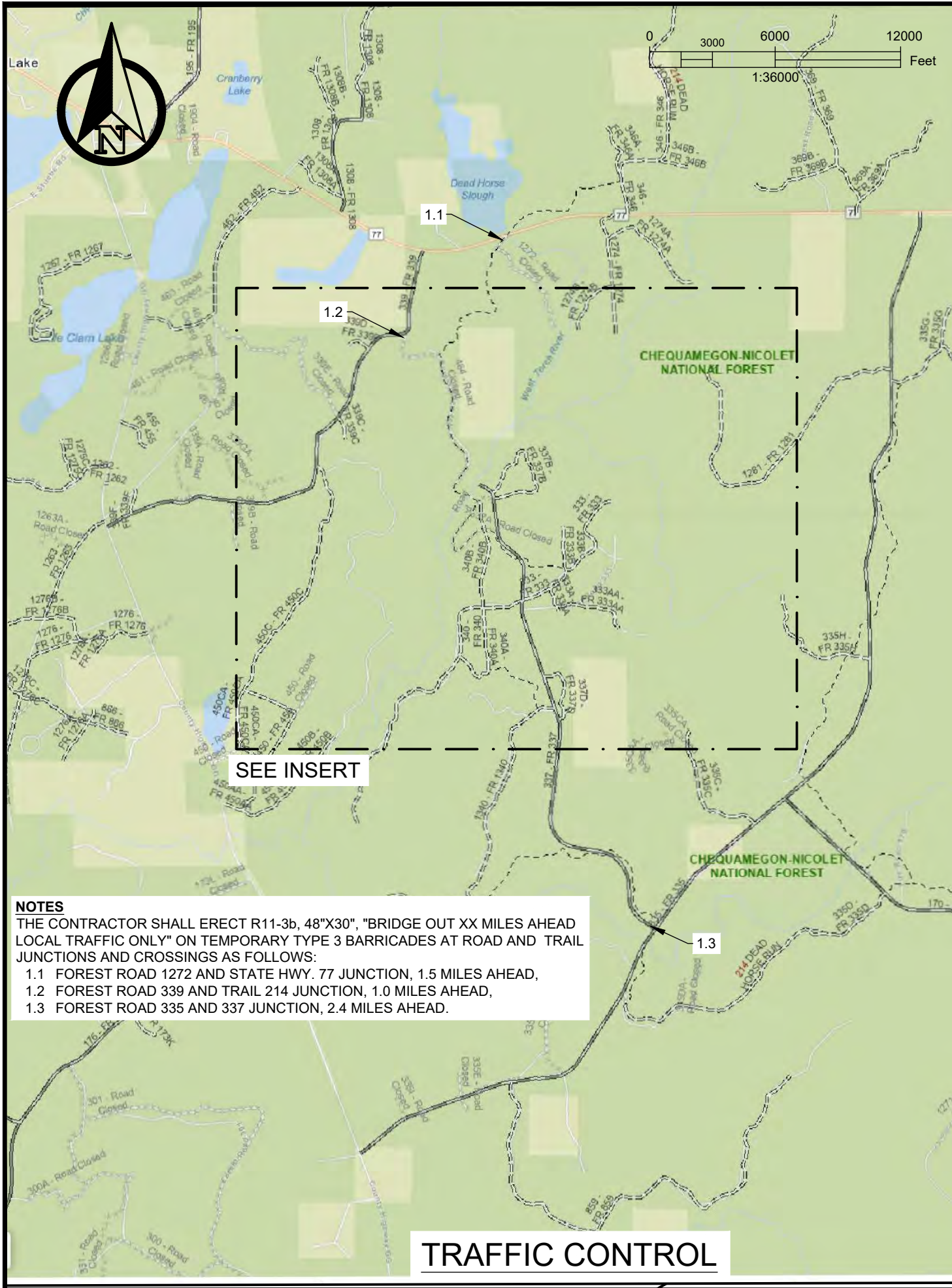
FOREST ENGINEER _____
DISTRICT RANGER _____
FOREST SUPERVISOR _____
RO BRIDGE PROGRAM MANAGER _____

DATE _____
DATE _____
DATE _____
DATE _____

APPROVED:

DIRECTOR OF ENGINEERING _____

DATE _____



United States Department of Agriculture
 Forest Service

(R9)
 EASTERN REGION

STAMPS, LOGOS, AND SEALS

CEDP, Inc.
 Consulting Engineers &
 Design Professionals
 6426 Offshore Drive
 Madison, WI 53705
 608-467-4900 | www.CEDP.us

| △ | | |
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| △ | | |
| △ | | |
| △ | | |
| NO. | REVISION / ISSUE | DATE |

PROJECT NAME

**STRUCTURE NO.
 091302-214-0.0000,
 WEST TORCH
 TRAIL BRIDGE**

CHEQUAMEGON-NICOLET
 NATIONAL FOREST

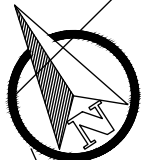
GREAT DIVIDE
 RANGER DISTRICT

DRAWING TITLE

**OVERVIEW AND
 TEMPORARY TRAFFIC
 CONTROL PLAN**

| | |
|----------------------------|----------------------------------|
| DATE 2/13/2024 | ARCHIVE NO. |
| DESIGNER R. POLKINGHORN | DRAWING SHEET NO. C-05 |
| DRAWN R. POLKINGHORN | |
| CHECKED A. JOHNSTON | |
| PROJECT NO. | SHEET 6 OF 21 |

2/13/24 11:14 CEDP - OWNER X:\PROJECTS\232427_ST_USFS_FD_3 TRAIL BR DESIGNS\90_CADD\501_PLANS\501.4_FRMTRORCH_06-TC.DWG.



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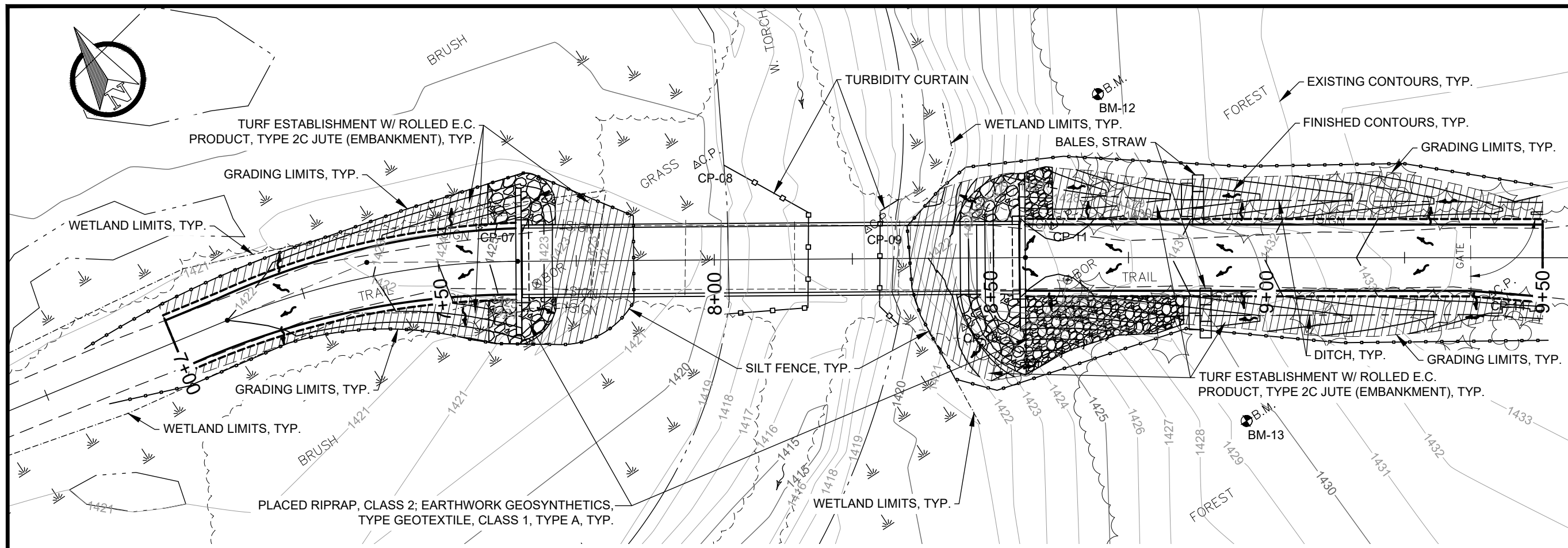
| NO. | REVISION / ISSUE | DATE |
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PROJECT NAME
STRUCTURE NO. 091302-214-0.000, WEST TORCH TRAIL BRIDGE
CHEQUAMEGON-NICOLET NATIONAL FOREST

GREAT DIVIDE RANGER DISTRICT

DRAWING TITLE
EROSION CONTROL PLAN AND TYPICAL TRAIL SECTION

| | |
|----------------------------|----------------------------------|
| DATE 2/13/2024 | ARCHIVE NO. |
| DESIGNER R. POLKINGHORN | DRAWING SHEET NO. C-06 |
| DRAWN R. POLKINGHORN | |
| CHECKED A. JOHNSTON | |
| PROJECT NO. | SHEET 7 OF 21 |

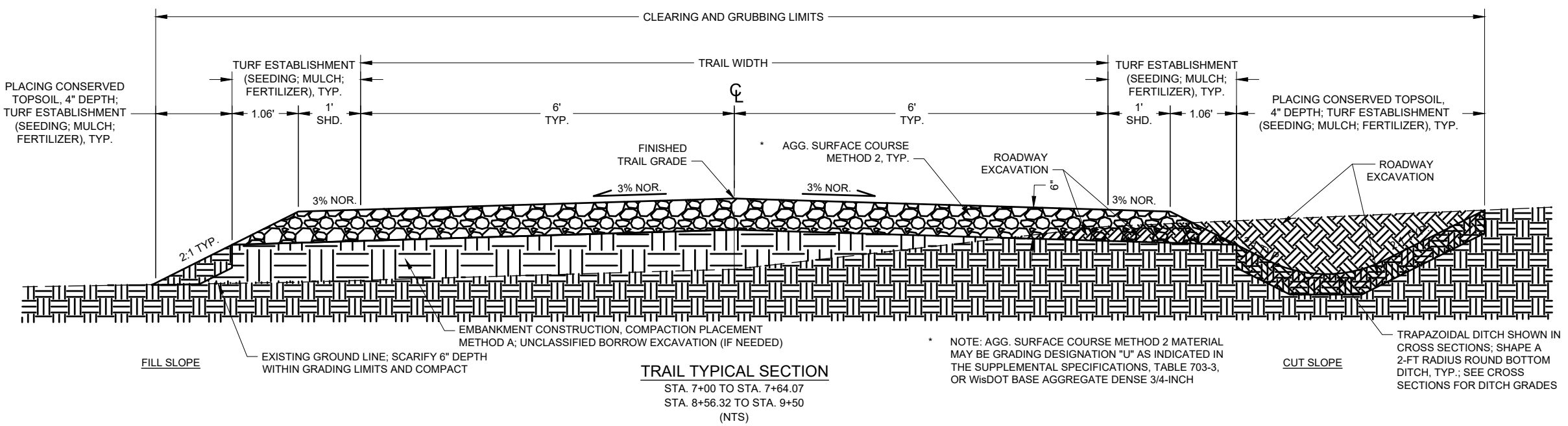


LEGEND

- TURF ESTABLISHMENT W/ ROLLED E.C. PRODUCT, TYPE 2C JUTE (EMBANKMENT)
- SILT FENCE
- TURBIDITY CURTAIN
- BALES, STRAW
- RUNOFF DIRECTION

NOTES

1. TURF ESTABLISHMENT INCLUDES SOIL PREPARATION, SEED, AND FERTILIZER.
2. INSTALL SILT FENCE AT EDGE OF WETLANDS OR GRADING LIMITS AS SHOWN.
3. SEE SUPPLEMENTAL SPECIFICATIONS SECTION 107 FOR WATER WORK RESTRICTED DATES.



1/28/24 11:19 CEDP - OWNER X:\PROJECTS\232497_ST_USFS_PD_3 TRAIL BR DESIGNS\90_CADD\901_PLANS\901.4_FRM\TORCH_07-EC & TYPICAL.DWG;



S-20-27, TYPE 3 OBJECT MARKERS REQUIRED ON BRIDGE POSTS; S-16-19, ORANGE TRAIL REASSURANCE MARKERS TYP.

PI STA. 7+37.74, E: 506500.30, N: 156927.99
 R: 140.00', L: 53.98', Δ: 157° 54' 24"
 PC STA. 7+10.41, N: 156933.06, E: 506473.45
 PT STA. 7+64.39, N: 156913.19, E: 506523.28

ABUTMENT, STA. 7+65.07,
 N:156912.82, E:506523.86

PLACED RIPRAP, CLASS 1;
 EARTHWORK GEOSYNTHETICS, TYPE
 GEOTEXTILE, CLASS 1, TYPE A, TYP.

SALVAGE AND RESET GATE AND RECEIVING POST;
 S-10-17, REMOVE AND REPLACE SIGNS

ABUTMENT, STA. 8+55.32,
 N:156863.96, E:506599.74

EXISTING CONTOURS, TYP.



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 Madison, WI 53705
 608-467-4900 | www.CEDP.us

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PROJECT NAME

**STRUCTURE NO.
 091302-214-0.000,
 WEST TORCH
 TRAIL BRIDGE**

CHEQUAMEGON-NICOLET
 NATIONAL FOREST

GREAT DIVIDE
 RANGER DISTRICT

DRAWING TITLE

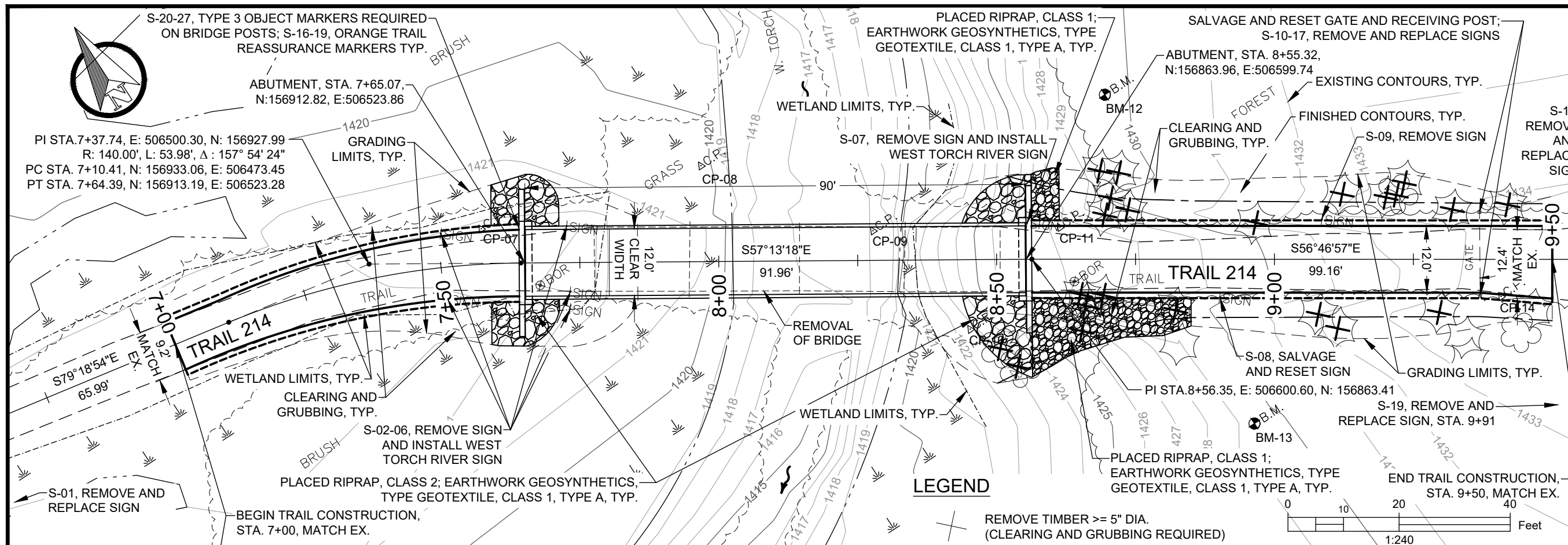
PLAN AND PROFILE

DATE: 2/13/2024 ARCHIVE NO.:

DESIGNER: R. POLKINGHORN
 DRAWN: R. POLKINGHORN
 CHECKED: A. JOHNSTON

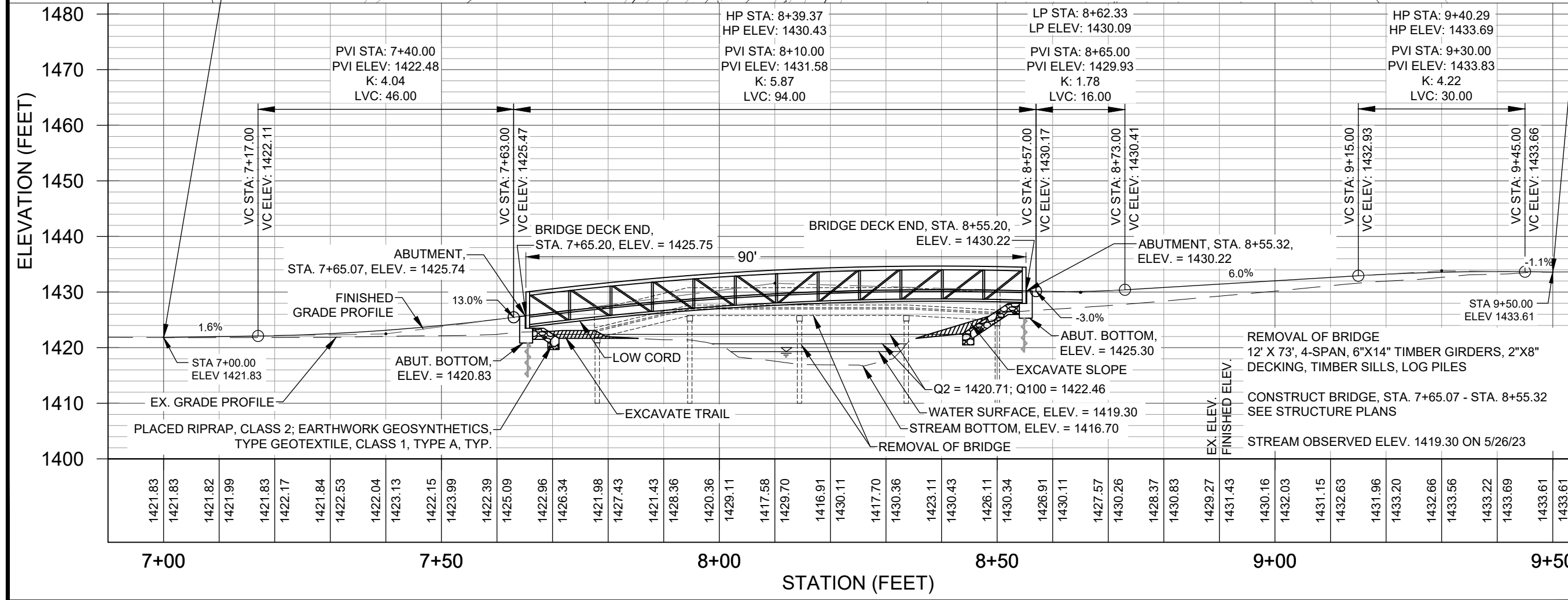
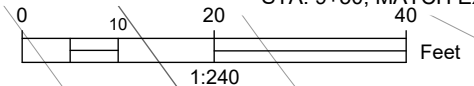
C-07

PROJECT NO. SHEET 8 OF 21

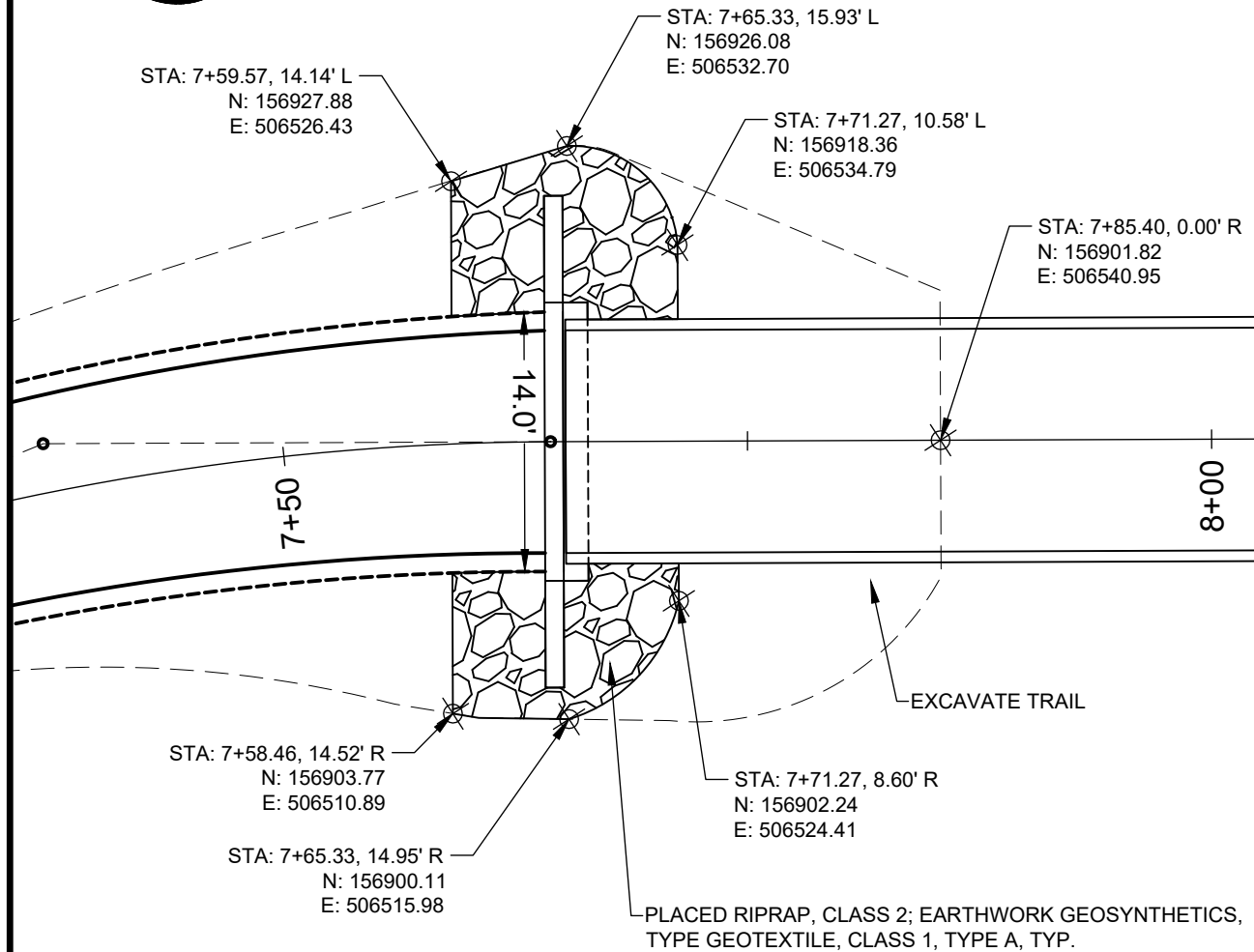
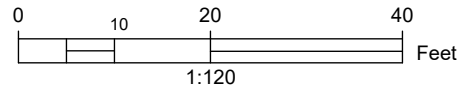
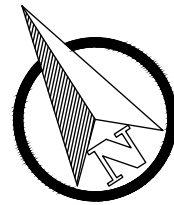


LEGEND

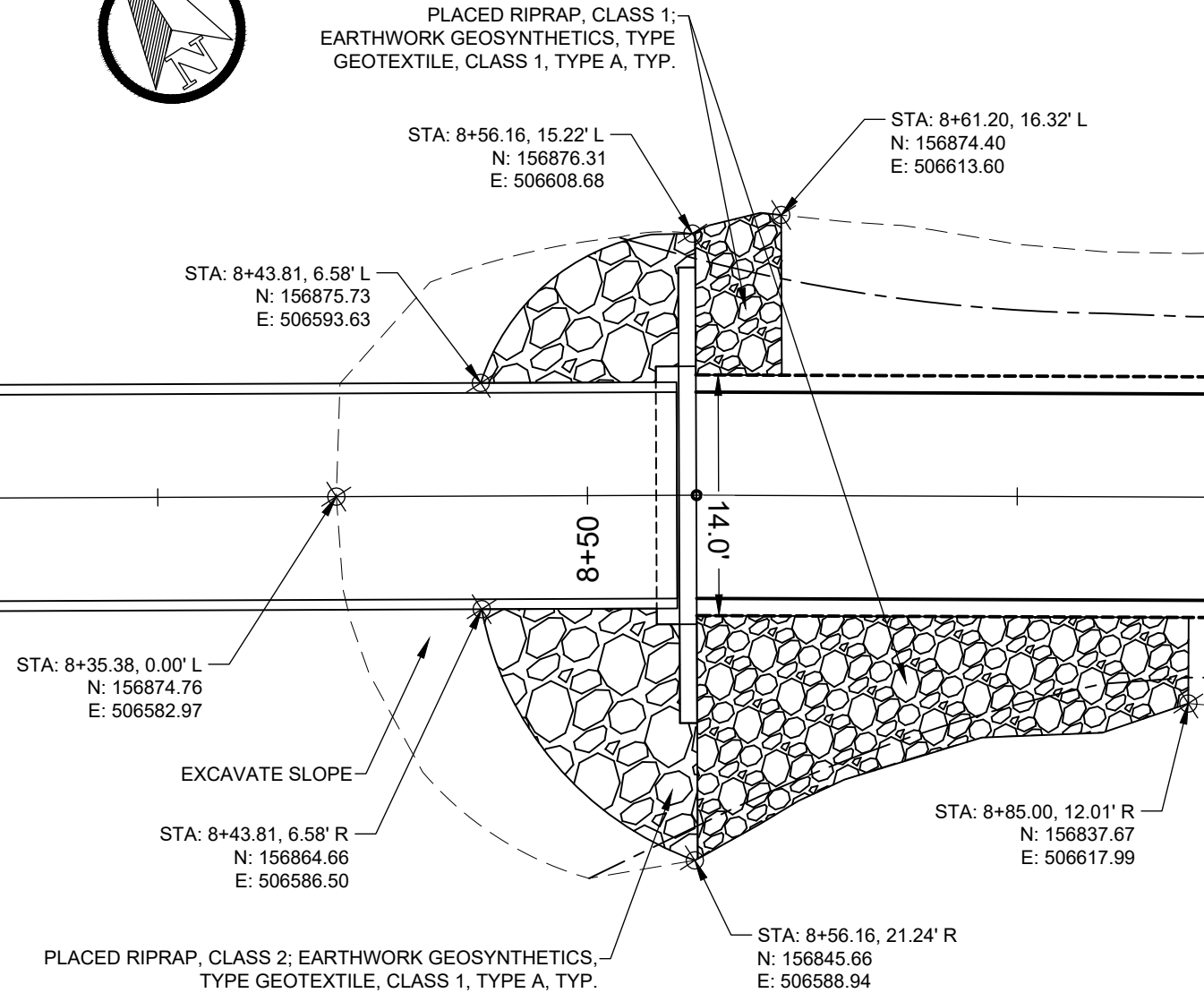
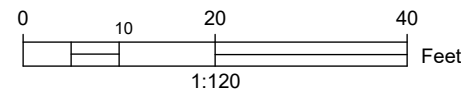
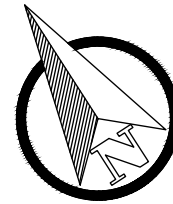
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 (CLEARING AND GRUBBING REQUIRED)



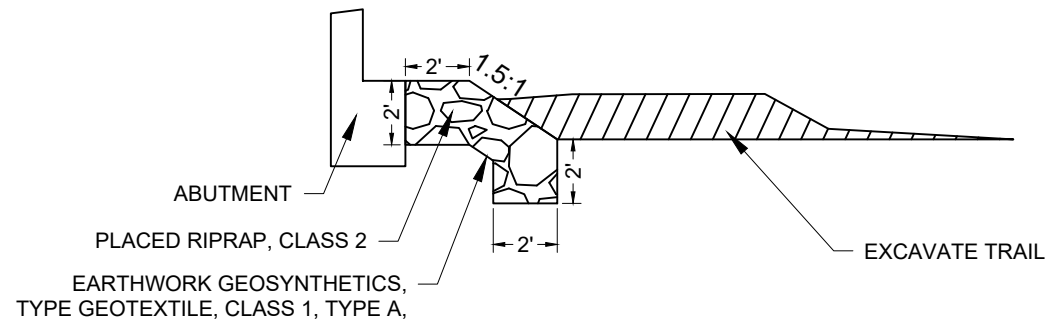
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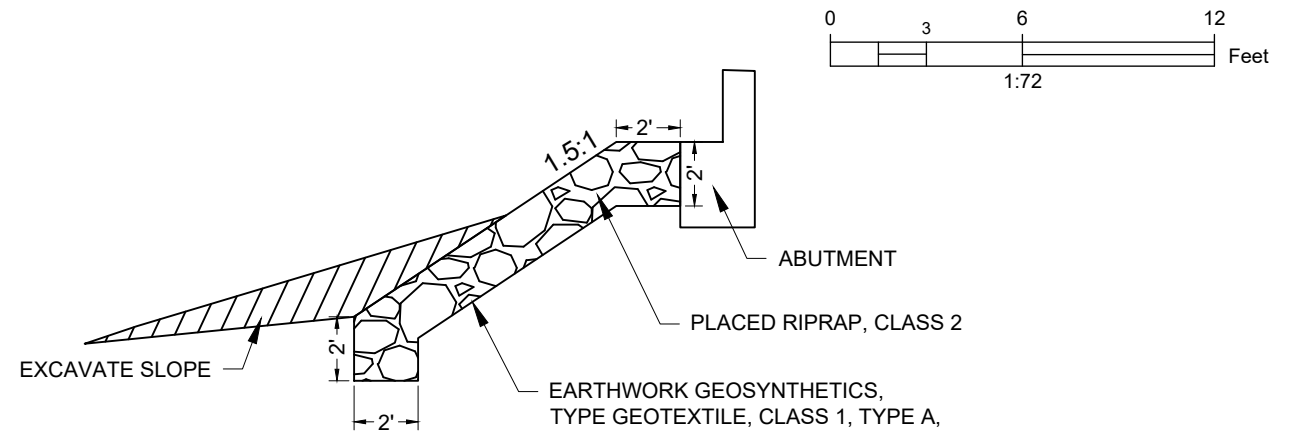
WEST ABUTMENT RIPRAP PLAN



EAST ABUTMENT RIPRAP PLAN



WEST ABUTMENT RIPRAP SECTION



EAST ABUTMENT RIPRAP SECTION



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| NO. | REVISION / ISSUE | DATE |
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PROJECT NAME

**STRUCTURE NO.
091302-214-0.000,
WEST TORCH
TRAIL BRIDGE**

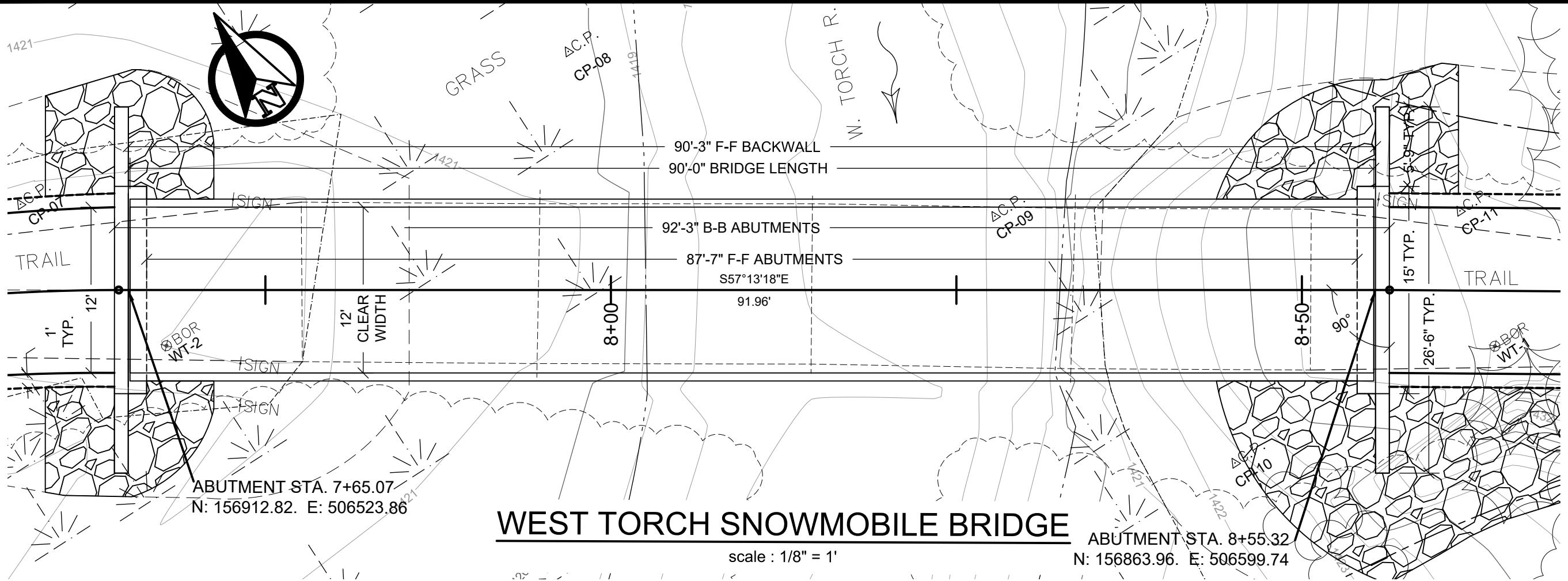
**CHEQUAMEGON-NICOLET
NATIONAL FOREST**

GREAT DIVIDE
RANGER DISTRICT

DRAWING TITLE

**CONSTRUCTION
DETAILS**

| | |
|----------------------------|----------------------------------|
| DATE 2/13/2024 | ARCHIVE NO. |
| DESIGNER R. POLKINGHORN | DRAWING SHEET NO. C-10 |
| DRAWN R. POLKINGHORN | |
| CHECKED A. JOHNSTON | |
| PROJECT NO. | SHEET 11 OF 21 |

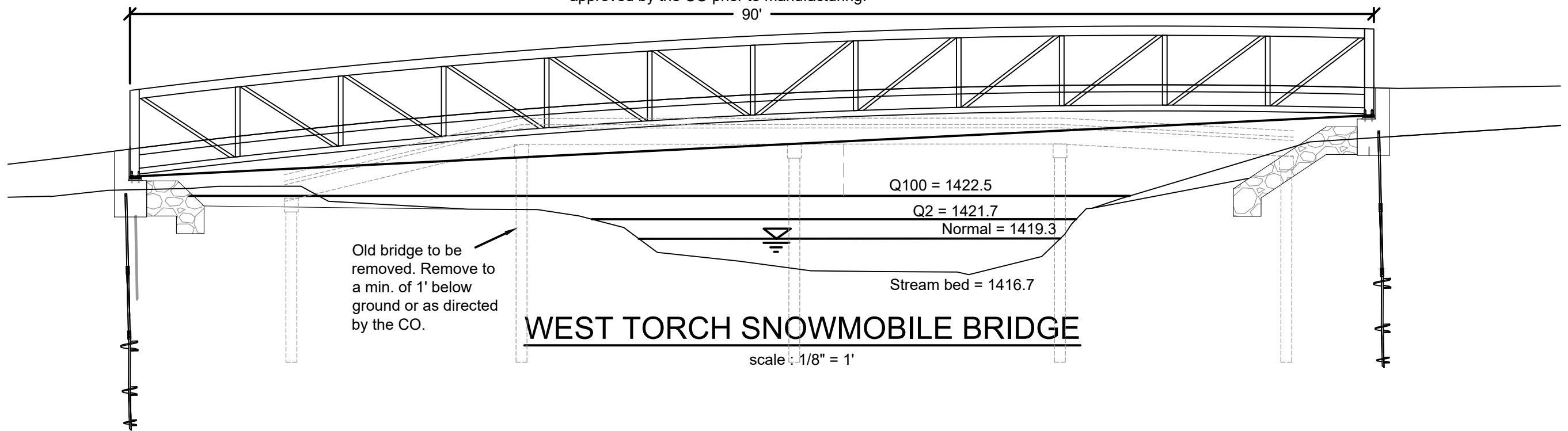


WEST TORCH SNOWMOBILE BRIDGE

scale : 1/8" = 1'

Bridge member sizes and configuration by the bridge manufacturer to meet these conceptual plans and the specifications. All shop drawing approved by the CO prior to manufacturing.

bridge camber = 1'-10"
bridge Δy = 4.47'



WEST TORCH SNOWMOBILE BRIDGE

scale : 1/8" = 1'

United States Department of Agriculture
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(R9)
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ART JOHNSTON, PE
37 N. 93rd AVE. W
DULUTH, MN 55808
715-360-6629

| 4 | | |
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| 3 | | |
| 2 | | |
| 1 | | |
| NO. | REVISION / ISSUE | DATE |

PROJECT NAME

**STRUCTURE NO.
091302-214-0.000,
WEST TORCH
TRAIL BRIDGE**

CHEQUAMEGON-NICOLET
NATIONAL FOREST

GREAT DIVIDE
RANGER DISTRICT

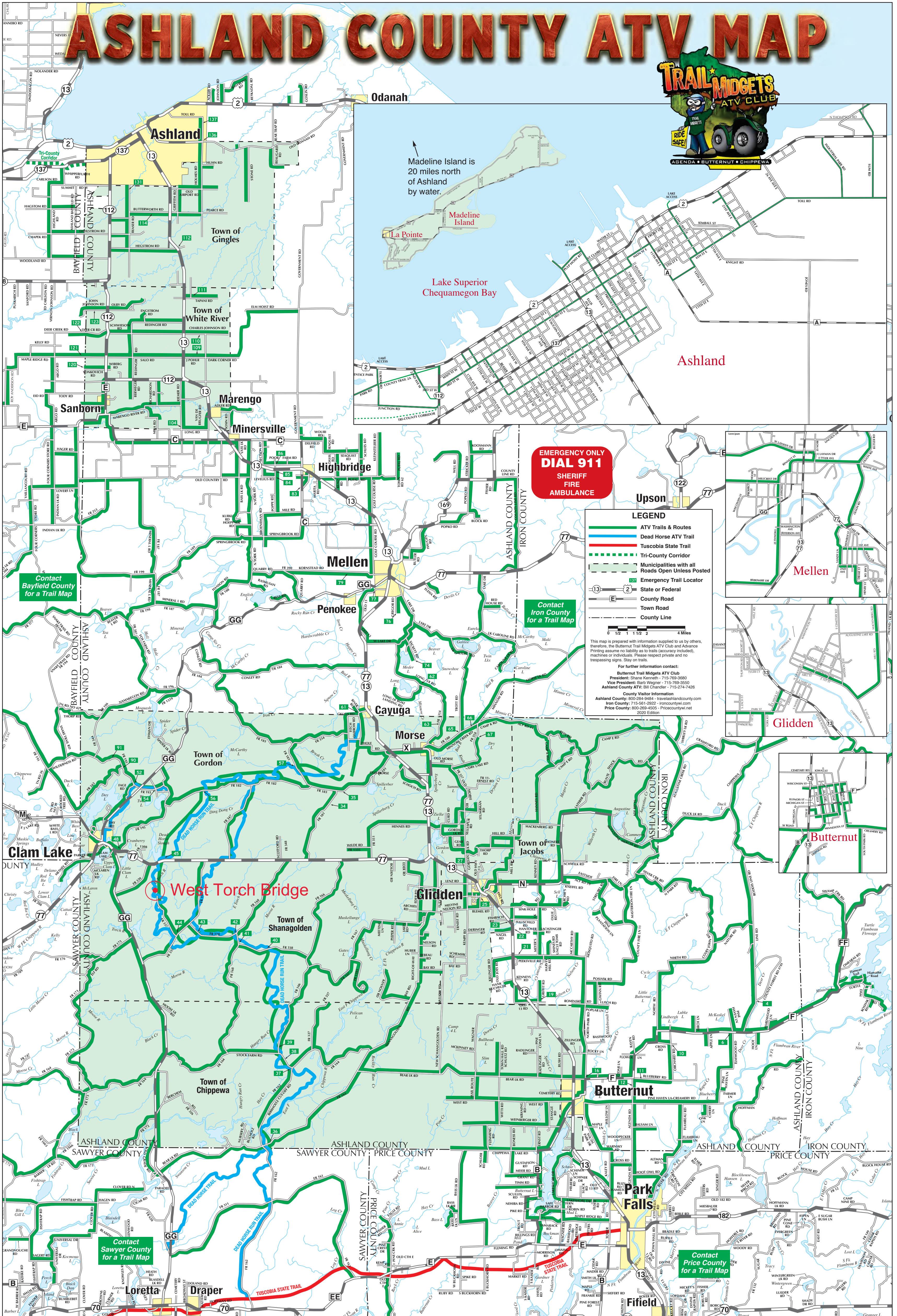
DRAWING TITLE

**STRUCTURE GENERAL
PLAN**

print on 11 x 17
1"

| | |
|---------------------------|----------------------------------|
| DATE 2/13/2024 | ARCHIVE NO. |
| DESIGNER A. JOHNSTON | DRAWING SHEET NO. S-01 |
| DRAWN A. JOHNSTON | |
| CHECKED R. POLKINGHORN | |
| PROJECT NO. | SHEET 16 OF 21 |

ASHLAND COUNTY ATV MAP



Madeline Island is 20 miles north of Ashland by water.

Lake Superior
Chequamegon Bay

**EMERGENCY ONLY
DIAL 911**
SHERIFF
FIRE
AMBULANCE

LEGEND

- ATV Trails & Routes
- Dead Horse ATV Trail
- Tussockia State Trail
- - - Tri-County Corridor
- Municipalities with all Roads Open Unless Posted
- Emergency Trail Locator
- State or Federal
- County Road
- Town Road
- County Line

0 1/2 1 1 1/2 2 4 Miles

This map is prepared with information supplied to us by others, therefore, the Butternut Trail Midgets ATV Club and Advance Printing assume no liability as to trails (accuracy included), machines or individuals. Please respect private and no trespassing signs. Stay on trails.

For further information contact:
 Butternut Trail Midgets ATV Club
 President: Shane Kenneth - 715-769-3880
 Vice President: Barb Wagner - 715-789-3550
 Ashland County ATV: Bob Chandler - 715-274-7426

County Visitor Information
 Ashland County: 800-284-9484 - travelashlandcounty.com
 Iron County: 715-561-2922 - ironcountywi.com
 Price County: 800-269-4505 - pricecountywi.net
 2020 Edition

Contact Bayfield County for a Trail Map

Contact Iron County for a Trail Map

Contact Sawyer County for a Trail Map

Contact Price County for a Trail Map

Mellen

Glidden

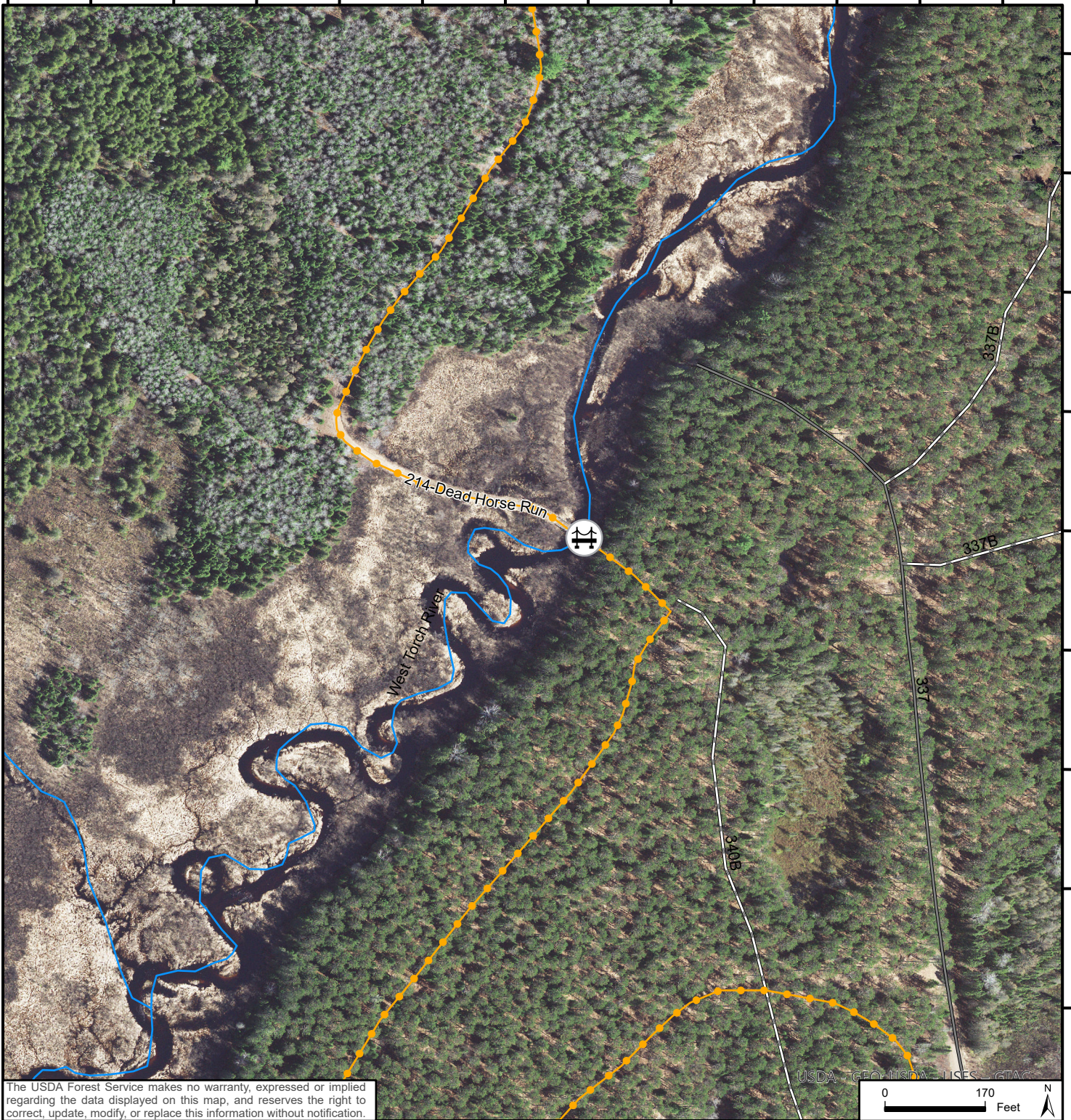
Butternut

West Torch Bridge



West Torch Bridge Project

90°51'52"W 90°51'50"W 90°51'48"W 90°51'46"W 90°51'44"W 90°51'42"W 90°51'40"W 90°51'38"W 90°51'36"W 90°51'34"W 90°51'32"W 90°51'30"W 90°51'28"W



The USDA Forest Service makes no warranty, expressed or implied regarding the data displayed on this map, and reserves the right to correct, update, modify, or replace this information without notification.



Map Date: 3/17/2024 - JBB

Legend

- Trail
- Trail
- West Torch Bridge

Roads and Trails

- Paved
- Dirt

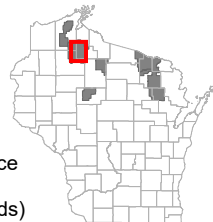
Water

- Lakes
- Marsh
- Rivers

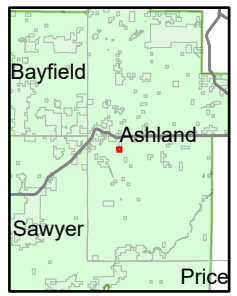
Ownership

- USDA-Forest Service
- Other (Non-FS Lands)

WISCONSIN



Quad:



West Torch Bridge Photos











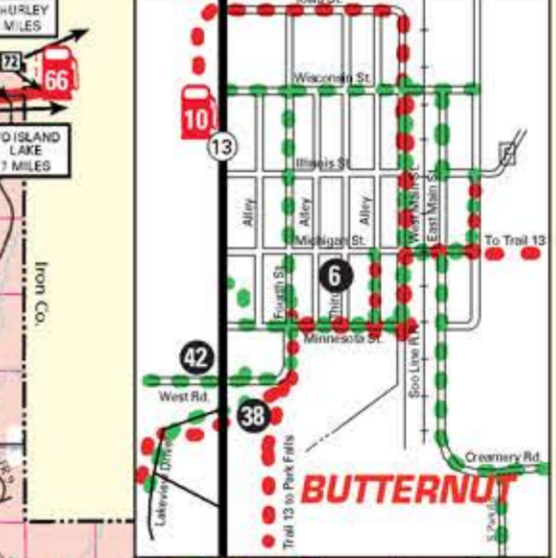
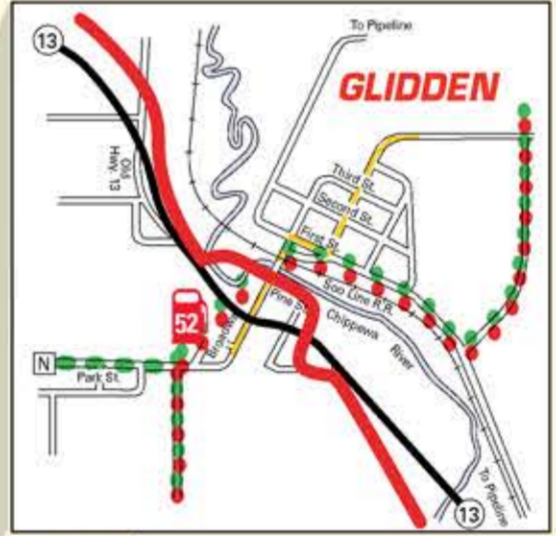
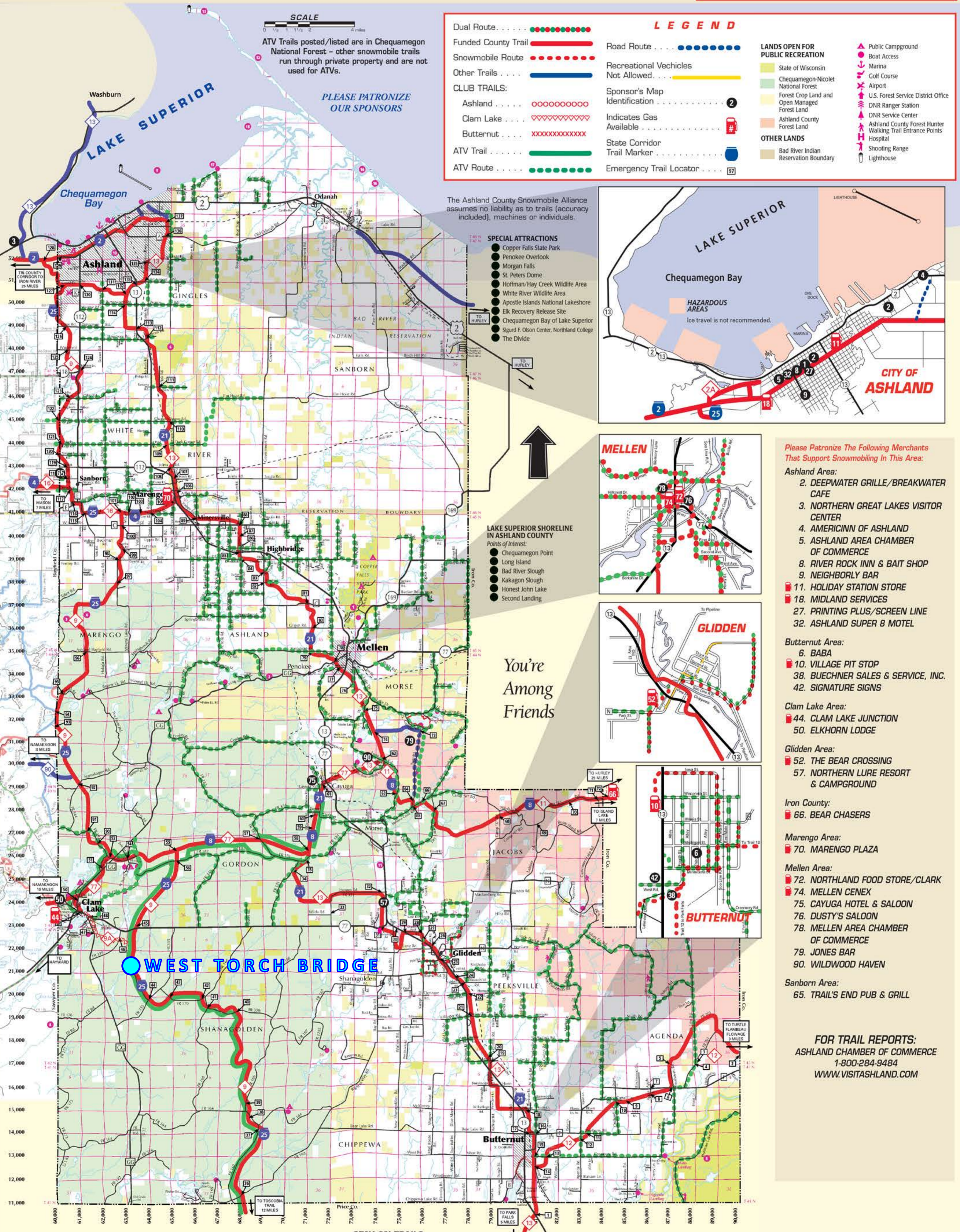


ASHLAND COUNTY SNOWMOBILE TRAILS & RECREATION MAP

• **ATV TRAIL** in the Chequamegon-Nicolet National Forest only.
 • **ATV ROUTES** are posted in each township. Follow their postings. Other Snowmobile Trails run through private property and are not used for ATVs.

ATV ROUTES FOR TOWNSHIPS
 THOSE OPEN PER ORDINANCE AS POSTED ONLY:

- Town of Agenda
- Town of Chippewa
- Town of Gordon
- City of Mellen
- Town of Jacobs
- Town of Shanagolden
- Town of Gingles
- Town of Marengo
- Town of Morse
- Town of Peeksville
- Town of White River



- Please Patronize The Following Merchants That Support Snowmobiling In This Area:*
- Ashland Area:**
- 2. DEEPWATER GRILLE/BREAKWATER CAFE
 - 3. NORTHERN GREAT LAKES VISITOR CENTER
 - 4. AMERICINN OF ASHLAND
 - 5. ASHLAND AREA CHAMBER OF COMMERCE
 - 8. RIVER ROCK INN & BAIT SHOP
 - 9. NEIGHBORLY BAR
 - 11. HOLIDAY STATION STORE
 - 18. MIDLAND SERVICES
 - 27. PRINTING PLUS/SCREEN LINE
 - 32. ASHLAND SUPER 8 MOTEL
- Butternut Area:**
- 6. BABA
 - 10. VILLAGE PIT STOP
 - 38. BUECHNER SALES & SERVICE, INC.
 - 42. SIGNATURE SIGNS
- Clam Lake Area:**
- 44. CLAM LAKE JUNCTION
 - 50. ELKHORN LODGE
- Glidden Area:**
- 52. THE BEAR CROSSING
 - 57. NORTHERN LURE RESORT & CAMPGROUND
- Iron County:**
- 66. BEAR CHASERS
- Marengo Area:**
- 70. MARENGO PLAZA
- Mellen Area:**
- 72. NORTHLAND FOOD STORE/CLARK
 - 74. MELLEN CENEX
 - 75. CAYUGA HOTEL & SALOON
 - 76. DUSTY'S SALOON
 - 78. MELLEN AREA CHAMBER OF COMMERCE
 - 79. JONES BAR
 - 90. WILDWOOD HAVEN
- Sanborn Area:**
- 65. TRAIL'S END PUB & GRILL

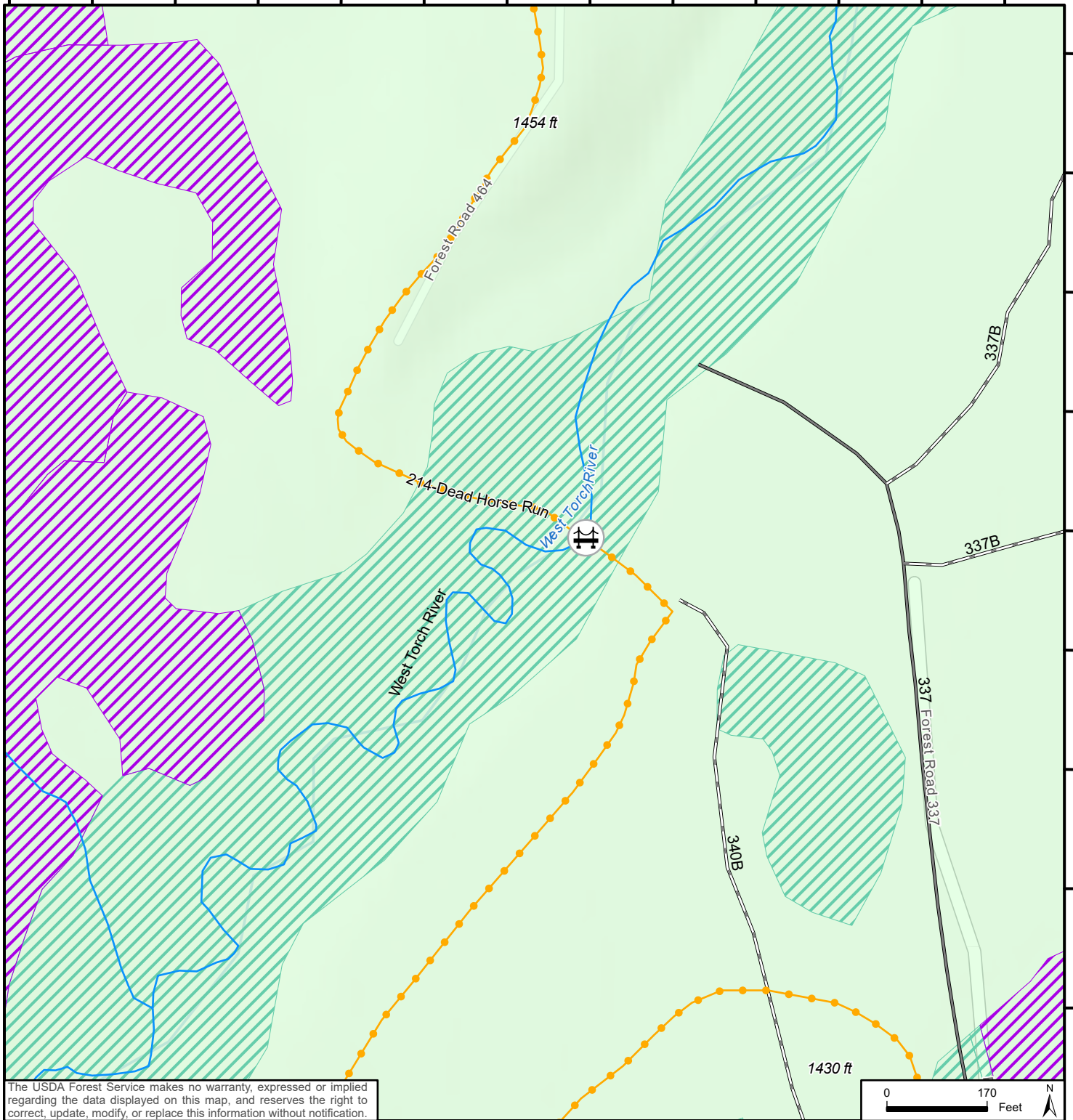
FOR TRAIL REPORTS:
 ASHLAND CHAMBER OF COMMERCE
 1-800-284-9484
 WWW.VISITASHLAND.COM



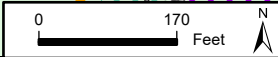
Chequamegon-Nicolet National Forest Great Divide Ranger District

West Torch Bridge Project

90°51'52"W 90°51'50"W 90°51'48"W 90°51'46"W 90°51'44"W 90°51'42"W 90°51'40"W 90°51'38"W 90°51'36"W 90°51'34"W 90°51'32"W 90°51'30"W 90°51'28"W



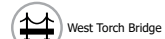
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Map Date: 3/17/2024 - JBB

Legend

Trail
● Trail



WI Wetland Inventory

- WETCODE
- lowland opening/open water;
 - lowland shrub
 - lowland forested

Roads and Trails

- Paved
- Dirt

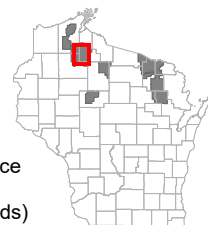
Water

- Lakes
- Marsh
- Rivers

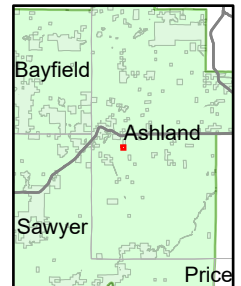
Ownership

- USDA-Forest Service
- Other (Non-FS Lands)

WISCONSIN



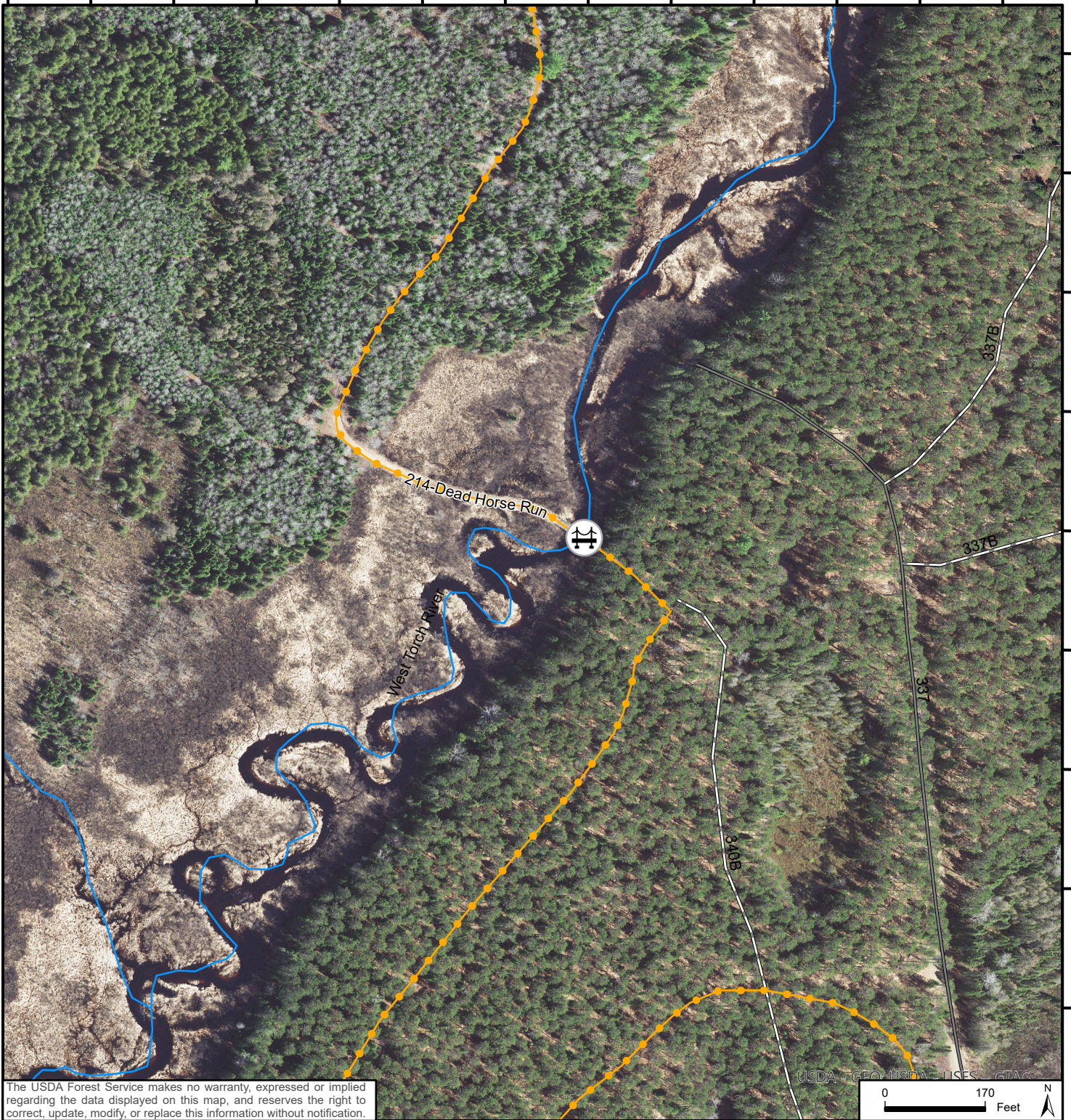
Quad:





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- West Torch Bridge

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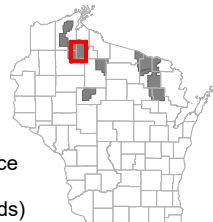
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WISCONSIN



Quad:

