S-11 Forest NST Peshtigo River Bridge

State of Wisconsin Department of Natural Resources <u>dnr.wi.gov</u>

Due Date: April 15

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 02/2024)

Page 1 of 5

financial assistanc	on of this form is rec e. Personally identi (DNR) may provide	fiable inforr	nation	found on	this form	is not inter	ided to be	used for any o	her purpos	e. The D	Department of
Instructions: Applications may combine more than one source of be submitted for consideration of traditional ATV, UTV, Snowmobis Stewardship funding. Submit one copy of all forms and attachment necessary attachments. Send applications to your Community Set				wmobile chments.	and Moto See Pag	rized e 2 for	Category	DNR Us	se Only	Number	
Section 1: App	licant Informatio	n									
Applicant / Orga	nization Name							ndividual other	than autho	rized in	dividual to act
Forest County	Forestry and Rec	creation I	Depar	tment	ľ	on behalf	of the app	olicant.	Select if t	he sam	e as applicant.
Individual Author	ized to Act on Bel	nalf of App	licant	per Reso	lution (Check Recipient Name (Name to Appear on Check)					
Travis Wollenb	erg				1	Forest Co	ounty Fo	restry and R	ecreation	Depart	tment
Title					-	Title				-	
Forest Adminis	strator										
Address						Address					-
200 E Madison	Street					200 E Ma	adison S	treet			
City			State	ZIP Cod		Dity				State	ZIP Code
Crandon			WI	545		Crandon				WI	54520
Telephone Numb	oer			Address	20 (Ciundon		· · · · · · · · · · · · · · · · · · ·		14.1	34320
(715) 478-3475		1,	ravio	@co.for	ect wi m	e e					
	ect Information			\sim							
Project Title		ttere jennteren	786-1	113,535		er transfere production to a constitution of the constitution of t	Current	Funded Mile	s New N	liles (if	applicable)
NST Peshtigo I	River Bridge Re	placemen	t								
County		Township	Rang	ge • E	Section	1/4 1/4	1/4	GPS Coordin Lat. 45.6	ates: 8005		
Forest		37 N	14	_	24			Long88.			
Forest County in number NR-21 inspection in 20 was noted to be The entire project and install the r	Project Description Summary Forest County is looking to rehab/replace Peshtigo River Bridge located on the Nicolet State Trail. This is DNR Bridge number NR-21-007 located in the Township of Caswell. This bridge is 100 years old and per our most recent bridge inspection in 2024 this bridge has major structural issues. A copy of the bridge inspection will be included. The bridge was noted to be replaced in the next few years with additional inspections in the mean time to ensure it is still safe to use. The entire project will require hiring an engineering company to engineer the bridge but also hire a contractor to remove and install the new bridge. This bridge is detrimental to the safety of ATV/UTV/Snowmobile traffic moving from Oconto County through Forest County to Florence County. RTP = \$100,000 ATV = \$436,276 SNO = \$436,276					nt bridge The bridge ill safe to use.					
_ ·	all maintenance la	nd use agr	reeme	nts are o	n file.						
Estimated Cost Maintenance	Acquisition	Insuran	ce		relopmen	19	dge Reha ไม _{่ 1} 55 อ	3	ehab.	Total	Estimated Cost
				Leave E	Blank – E	NR Use	Only				
Applicant Certif											
Printed Name of Authorized Official				Official's Title							
Travis Wollenberg				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.

Motorized Recreation Grant Application

Form 8700-159 (R 02/2024)

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Appendix A - Required for	Diluge Kella	nizehiar	e, Nev		X-LOUTE		uye
⊠ Bridge Rehab/Replace	☐ New Brid	lge [Reroute with new bridge				
County	Township Range	e oE Se	ction 1/2	4 1/4	1/4	GPS Coordinates: Lat. 45.68005	
Forest	37 N 14	- 1	24			Long88.6788	
Water Body Name	I		Bridge	Name	I		County Inventory Number
Peshtigo River			Peshi	tgo Ri	ver Brid	ge	NR-21-007
Funded Trail Name or Number (SN	IARS if applicable	<u>.)</u>			ge site ev	er received develo	pment or rehabilitation funds
Nicolet State Trail			in the	past?	O Yes	i ⊙ No Yea	ur:\$
Bridge is located on: O Private	property		Old Br	ridge/C	ulvert Siz	e 193.8' x 12'	
Public	property		New E	Bridge/C	Culvert Si	ze 193.8' x 12'	
Landowner Where Bridge is Locate	ed		Telepl	hone N	umber	Length of Tra	il Use Agreement (5 year minimum)
Wisconsin DNR						Forever	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,000 lbs.	Age of Bri	dge	Bridge	e Material		
	,000 lbs.	100			Frame,	Wood Deck	·
Sponsoring Club Name		C	lub Cor	ntact		Te	elephone Number
Do you have your trail bridges post	_		What is the maximum load of the other bridges on the system if groomed with this bridge?				
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<u></u>	5,000 1			•	
What is the weight of your puller &	arag/grading equ	ipment?					
20,000 lbs		- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-					
What other recreational trail uses a Same as before, Winter: Snown			W bib	na hil	ring OL	IN A	
If there are other Recreational uses	· · · · · · · · · · · · · · · · · · ·						nilo or non ATV uporo?
	s planned, now in	uch of the L	mage co	JSC WHI I	be palu ic	or by non-snowing	Jile of horr-ATV users?
None							
● Yes ○ No Have you contacted your local <u>DNR Water Management Specialist (WMS)</u> regarding a permit?							
Yes							
Yes							
● Yes ○ No Will an H & H (h	ydrologic and hy	draulic) stud	ly be red	quired?	1		

Bridge Project Detailed Description

This project is to replace an existing Peshtigo River Bridge on the Nicolet State Trail. This bridge is located on the Nicolet State Trail which has a lot of traffic year round by motorized and non-motorized recreation. This bridge is a necessity for users to be able to go from Laona through Forest County going to Florence County. Based on the inspection report from May 5th, 2024 conducted by KBIS, Peshtigo River Bridge had many issues. There is evidence that there is failing abutments, concrete piers have large spalls. We have been advised by the inspection to inspect this bridge yearly and have replaced in the next few years. With funding Forest County would be looking to hire engineering to design and engineer a new bridge. Additionally, we would be bidding out this project for a contractor to come in and remove the existing bridge and then replacing it with a new bridge.

Appendix A (continued)		
Summarize Costs in Appropriate Categ		
	Bridge Structure	
	Quote 1	Quote 2
	Steel	Steel
Bridge Dimensions:	2 - 80x12, 1 - 40x12	2 - 80x12, 1 - 40x12
	ng Services	Larson Construction, Co. Inc.
Design Weight Load	25,000 lbs.	25,000 lbs.
Cost of Structure: 1. Engineering	\$	\$
2. Structure	\$347,000	\$ 497,300
Subtotal	\$ 347,000	\$ 497,300
	Quote 1	Quote 2
Installation Costs:	Contractor or O Sponsor Estimate	◆ Contractor or ○ SponsorEstimate
1. Engineering	\$ 80,000	\$ 80,000
2. Site Preparation	\$ 18,000	\$ 115,000
3. Abutments	\$ 32,000	\$ 31,780
4. Pilings/Piers	\$ 33,000	\$ 82,320
5. Approaches	\$ 21,000	\$ 4,320
6. Riprap	\$ 2,000	\$ 13,420
7. Labor	\$ 247,000	\$ 72,732
8. Equipment Rental	\$ 235,000	\$ 46,680
9. Culverts	\$	\$
10. H & H Study	\$ 8,000	\$ 8,000
11. Wetland Delineation	\$ 6,000	\$ 6,000
12. Other Soil Boring	\$ <u>15,000</u>	\$ 15,000
Subtota	s \$697,000	\$ 475,252
Total Cos	st \$ <u>1,044,000</u>	\$ <u>972,552</u>
For the application grant, yo	u must take the lowes	st of the two quotes.
Entire Deck and Railing Projects	○ Contractor	r 🔘 Sponsor 🔘 Club
Bridge Dimensions:		
Design Weight Load	lbs.	
1. Materials	\$	
2. Labor	\$	
Tota	·I \$	
•		

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.

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					Possible Points	Actual 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) 2 Permits (maximum points 4) Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed 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)? 11% - 49% from other funding source(s)? 1 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 10 or more year deeded easement on private land or other public land, for all portions of that trail to the nearest road on each side of the bridge 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 of the bridge 10 or more year deeded easement on private land or other public land, for just the bridge site 3-9 deeded easement on private land or other public land, for just the bridge site 3-9 deeded easement on private land or other public land, for just the bridge site 3-9 deeded easement on private land or other public land, for just the bridge site 3-9 deeded easement on private land or other public land, for just the bridge site 3-9 deeded easement on private land or other public land or other public land 3-9 year land use agreement (LUA, not deeded) on private land or other public land 3-9 year land use agreement (LUA, not deeded) on private land or other public land 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 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.					Tonto	1 Oli Ito
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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 Yes 2 Projects -1					4	
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project is one that has exceeded it's initial grant period. Two or more active projects - deduct 1 point Yes 2 Projects -1	A s	snow	wmobile	e active		
Two or more active projects - deduct 1 point Yes 2 Projects -1						
	Yes	es 2	2 Projec	ts	-1	-1
		(GRANI) TOTA	L	16

Comments/Notes:

Bridges Proposed Construction Plans:

Stream 30-12: Steel Free Span Bridge (85' long by 12' wide) Steel Railing 3'6" high. Bridge will sit on concrete or wood abutments and connect into the existing grade of the trail.

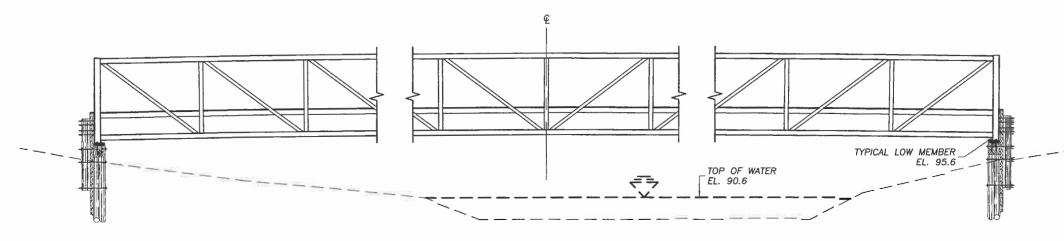
Swamp Creek: Steel Free Span Bridge (70' long by 12' Wide) Steel Railings 3'6" high. Bridge will sit on concrete or wood abutments and connect into the existing grade of the trail.

Peshtigo River: Steel Free Span Bridge or Bridge with two piers. Depends what will occur during engineering. Bridge will be (2-80" & 1-40' long by 12' Wide) Steel Railings 3'6" high. Bridge will sit on concrete or wood abutments and connect into the existing grade of the trail.

SAMPLE

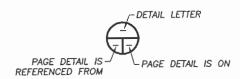
PLUM CREEK BRIDGE SAMPLE /ILAS COUNTY, WISCONSIN





ELEVATION VIEW RAILING NOT SHOWN

(SCHEMATIC)



CALLOUT LEGEND

PRELIMINARY BRIDGE WEIGHT ESTIMATED LIFTING WEIGHT OF BRIDGE 30,100 LBS

BRIDGE SPAN CAMBER	
SHOP CAMBER	7 9/16"
DEAD LOAD DEFLECTION	3/8"
RESIDUAL CAMBER	7 3/16"

TEMPERATURE/LENGTH CHART					
TEMPERATURE LENGTH					
−40° F	59'-11 1/2"				
70° F	60'-0"				
110° F	60'-0 3/16"				

	BRIDGE SPA	N REACTION	S
COMBINE REACT	ONS AS PER LOCA DING CODES AS RE		+ DOWNWARD LOAD - UPWARD LOAD
LOAD	P lbs	H Ibs	L lbs
DEAD	7,500		
UNIFORM LIVE	10,700		
VEHICLE	15,400		
WIND		5,800	3,900
WINDWARD	-7,300		<u> </u>
LEEWARD	1,500		
THERMAL			1,500
"D" VEDTICAL	LOAD FACH BASE	DIATE (A PER BR	IDGE SPAN)

"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE SPAN) – LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)

DESIGN DATA

- 1) DESIGN OF SUPERSTRUCTURE COMPLIES WITH THE 14TH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL, ANSI/AISC 360-10, AND THE PROJECT SPECIFICATIONS.
- 2) DESIGN LOADS:
- LIVE LOAD
- A) A UNIFORM LIVE LOAD OF 60 psf APPLIED TO THE ENTIRE DECK SURFACE; OR
- B) 25,000 LB. GROOMER (60/40 AXLE SPLIT) PLUS 60 PSF SNOW LOAD C) DESIGN IS BASED ON A MAXIMUM OF 20,000 CYCLES OF 1 TON OR GREATER
- VEHICLES OVER THE LIFE OF THE BRIDGE D) 1,000 LB POINT LOAD (IN ADDITION TO THE DESIGN VEHICLE, IF ANY, BRIDGE WILL SAFELY ACCOMMODATE ANY VEHICLE WITH WHEEL LOADS LESS THAN OR EQUAL TO

THE DESIGN POINT LOAD.)

- WIND LOAD

 A) A LATERAL WIND LOAD OF 35 psf
 ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
- B) AN UPLIFT WIND LOAD OF 20 psf APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH.

FABRICATION & MATERIAL NOTES:

- 1) THE BRIDGE SHALL BE FABRICATED FROM COLD-FORMED WELDED AND SEAMLESS HIGH STRENGTH, LOW-ALLOY STRUCTURAL TUBING WITH IMPROVED ATMOSPHERIC CORROSION RESISTANCE MEETING THE REQUIREMENTS OF ASTM A847, AND PLATES AND STRUCTURAL SHAPES MEETING THE REQUIREMENTS OF ASTM A588. (FY = 50,000 PSI).
- 2) THE WELDING PROCESS SHALL BE THE FLUX CORE ARC WELDING PROCESS, UTILIZING E81T1-W2/W2M ELECTRODES.
- 3) WELDED CONNECTIONS SHALL BE AS DETAILED AND NOTED EXCEPT THAT MISCELLANEOUS MEMBERS, INCLUDING STRINGERS SUPPORTED ON TOP OF FLOOR BEAMS, RAILINGS, AND OTHER MEMBERS FOR WHICH WELDS ARE NOT SPECIFICALLY DETAILED, SHALL BE STITCH WELDED TO THE SUPPORTING MEMBER. A STITCH WELD IS DEFINED AS A WELD OF APPROXIMATELY 1-1/2" TO 2" IN LENGTH, OF A SUFFICIENT NUMBER TO ADEQUATELY HOLD THE MEMBER IN PROPER POSITION.
- 4) TEN PERCENT OF EACH DIFFERING STRUCTURAL WELD (DIFFERING WELD TO BE DEFINED BY TYPE, SIZE, LENGTH) SHALL BE RANDOMLY TESTED (MAGNETIC PARTICLE). ALL WELDS SHALL BE VISUALLY INSPECTED AND CONFORM TO AWS D1.1.
- 5) SHOP SPLICES OF TUBULAR MEMBERS, WHEN NEEDED, SHALL BE FULL PENETRATION JOINTS UNLESS DETAILED OTHERWISE. JOINT DETAIL SHALL BE AS SPECIFIED IN THE APPROPRIATE WELD PROCEDURE. ALL OF THESE WELDS SHALL BE TESTED (MAGNETIC PARTICLE). SHOP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER SEALING THESE PLANS.
- 6) RAILINGS AND SIDE DAMS SHALL BE SHOP SPLICED AS FOLLOWS: OPEN SHAPE, ROUND PIPE, AND LARGE (3x OR GREATER) TUBULAR MEMBERS MAY BE SPLICED WITH THE PROVIDED DETAILS AND WELD PROCEDURES AT ANY LOCATION. SMALL TUBULAR MEMBERS SHALL BE SPLICED AT OR WITHIN TWO FEET OF A SUPPORT. MEMBERS THAT ARE SPLICED DIRECTLY OVER A SUPPORT MAY BE WELDED AT THE VISIBLE FACES ONLY, PROVIDED THE SPLICE IS CENTERED ON THE SUPPORT AND BOTH ADJOINING MEMBERS ARE AT A MINIMUM STITCH WELDED TO THE SUPPORT. TUBULAR RAILINGS DESIGNATED AS TRAFFIC BARRIERS SHALL ONLY BE SPLICED CENTERED ON A SUPPORT AND EACH ADJOINING MEMBER SHALL BE CONTINUOUS OVER A MINIMUM OF TWO PANELS. HOLD DOWN AND TIE DOWN ANGLES DO NOT REQUIRE SPLICES.
- 7) ALL HIGHLY VISIBLE SURFACES OF STEEL SHALL BE BLAST CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION NO. 7 BLAST CLEANING (SSPC-SP7).
- 8) BRIDGE TO BE FABRICATED AND DELIVERED TO THE SITE AS 1 UNIT.
- 9) BRIDGE DECKING SHALL BE 3"x8" SOUTHERN YELLOW PINE NO. 1 S4S, TREATED WITH PTI OR MCA IN ACCORDANCE WITH
- 10) BRIDGE WEARING COURSE SHALL BE 2"x8" ROUGH WHITE OAK, UNTREATED.

FILLET WELD CHART

THICKNESS OF THINNEST PIECE	WELD SIZE
1/4" OR LESS	1/4"
3/8" OR GREATER	5/16"
NON STANDAR	RD WELDS

NON	STAN	DARE) WEL	.DS
	MEMBER 2 FOR SIZES.			

WELD P	ROCEDURES
FILLET	PARTIAL PEN
FC-02	FC-06
FC-03	FC-10
FC-04	FC-14
	FULL PEN
	FC-05
	FC-07
	FC-09

WELD NOTES:

EXCEPTIONS TO THE STANDARD WELD SIZES INCLUDE FLANGES OF THE WIDE FLANGE SECTIONS WHICH SHALL BE 1/4", WEBS OF WIDE FLANGE SECTIONS, RAILINGS, SIDE DAMS, COVER PLATES OR ANGLES, AND TIE DOWNS WHICH SHALL BE 3/16", AND HANDRAIL BRACKET WELD TO VERTICAL WHICH SHALL BE 3/8", UNLESS DETAILED OR NOTED OTHERWISE.

WHEN A FILLET WELD IS MADE FROM A BRANCH MEMBER TO THE RADIUS PORTION OF A TUBULAR THROUGH MEMBER, THE RADIUS SHALL BE BUILT UP AS REQUIRED TO OBTAIN FULL WELD THROAT.

DO NOT SCALE DRAWINGS

ENGINEER'S SIGNATURE AND SEAL ARE TO ASSUME DESIGN RESPONSIBILITY FOR THE PREFABRICATED STEEL SUPERSTRUCTURE AS DRAWN AND SUPPLIED BY WHEELER LUMBER, LLC. INDEPENDENT OF ITS FINAL POSITION. THIS DESIGN RESPONSIBILITY IS LIMITED TO THE PREFABRICATED STEEL SUPERSTRUCTURE ONLY AND DOES NOT INCLUDE ANY DESIGN RESPONSIBILITY, PERTAINING TO, BUT NOT LIMITED TO, SUBSTRUCTURE DESIGN OR CAPACITY, HYDRAULICS, SOILS, SCOUR ANALYSIS, PERMITTING PROCEDURES, UTILITY FACILITIES, ERECTION, ROADWAY GEOMETRICS, ETC.

AS-BUILTS 4/23/18 JCS DESCRIPTION DATE SHEET TITLE:

INDEX

- COVER SHEET
- GEN. PLAN & ELEV.
- SECTION DETAILS
- END VIEW DETAILS
- MISC. DETAILS

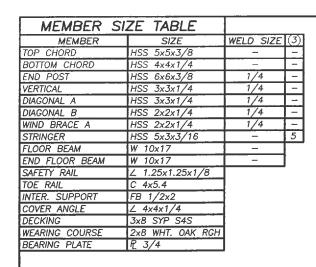
COVER SHEET

60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN



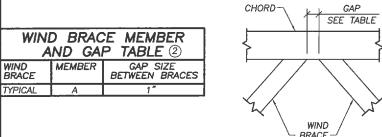
9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com

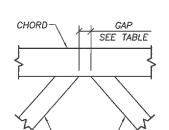
ATE: 9/29/17		TRACKING NO. T19464	SHEET NO.
HK: JAS	DWN: NBB	ORDER NO. 14188	1 of 3



DIAGONAL MEMBER AND GAP TABLE ②						
DIAGONAL MEMBER GAP SIZE						
		TOP	воттом			
FIRST	Α	9/16"	1/2"			
SECOND	SECOND A 1" 1/2"					
TYPICAL * B 1 1/4" 3/4"						
* UNLESS NOTED OTHERWISE IN CHART						

DIAGONAL-





DIAGONAL GAP DETAIL

GAP

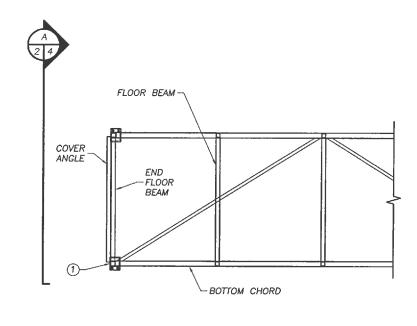
SEE TABLE

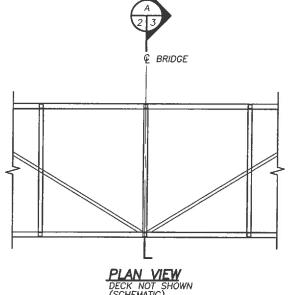
CHORD-

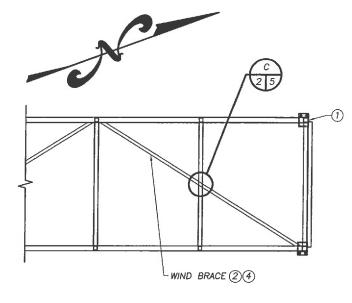
VERTICAL OR-

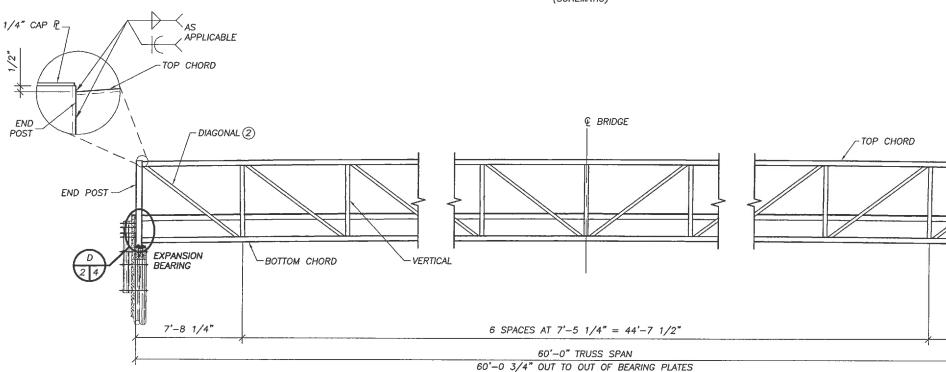
END POST

WIND BRACE GAP DETAIL





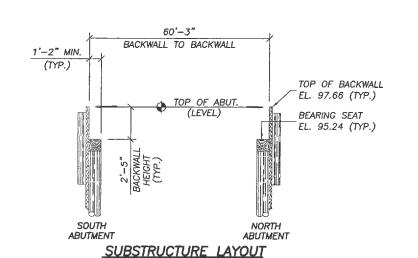




KEY NOTES:

WIND BRACE

- ① BRIDGE NAME PLATE/LOAD LIMIT PLATE EACH END. PLATE SHALL STATE, "12.5 TON VEHICLE LOAD LIMIT." IF LOAD LIMIT PLATES ARE OBSTRUCTED, ADDITIONAL PLATES WILL BE PROVIDED UPON REQUEST TO WHEELER.
- (2) SEE MEMBER AND GAP TABLE THIS SHEET. MEMBER NUMBERING BEGINS AT END OF BRIDGE. MEMBERS AND GAPS SHOWN ARE SYMMETRICAL ABOUT THE CENTERLINE OF THE BRIDGE UNLESS NOTED OTHERWISE.
- (3) FOR RECTANGULAR TRUSS MEMBERS, THE DIMENSION SHOWN IN THIS COLUMN IS THE DIMENSION SEEN IN THE TRUSS ELEVATION VIEW.
- (4) WIND BRACES ARE ORIENTED IN A WARREN TRUSS CONFIGURATION AND SHALL SPAN ACROSS 2 BAYS EACH EXCEPT AS NOTED.



DO NOT SCALE DRAWINGS

SHEET TITLE: GENERAL PLAN & ELEVATION

> 60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN

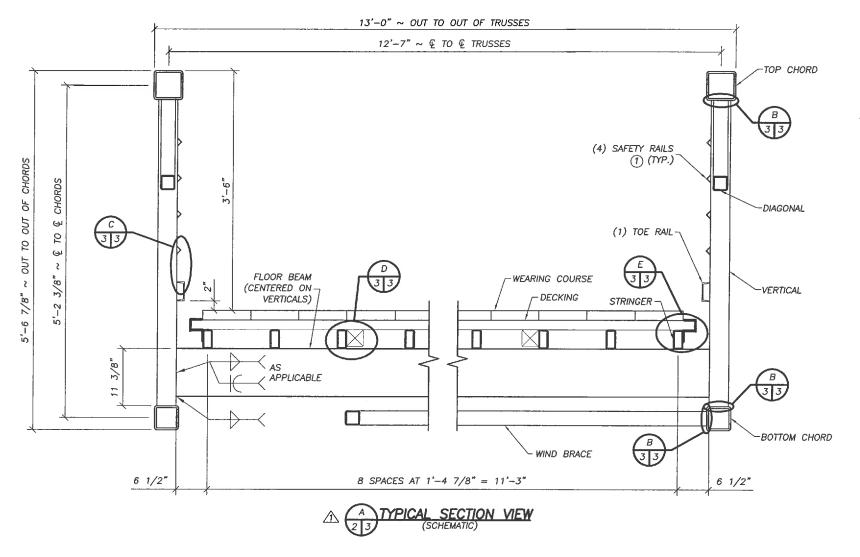


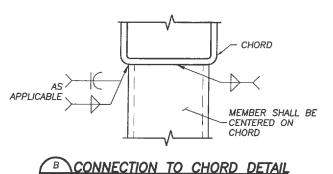
9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com

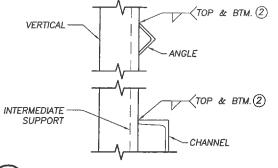
EXPANSION BEARING

7'-8 1/4"

DATE: 9/29/17		TRACKING NO. T19464	SHEET NO.
CHK: JAS	DWN: NBB	ORDER NO. 14188	2 of 5

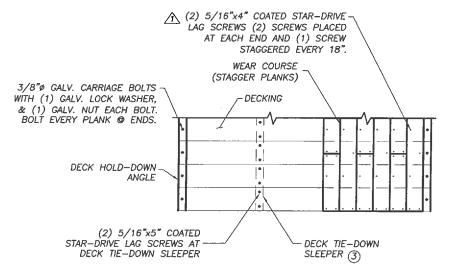






STEEL RAIL ATTACHMENT DETAILS INTERMEDIATE SUPPORT SHALL BE LOCATED © MID BAY FROM THE BOTTOM OF THE TOP CHORD

TO 1/4" BELOW THE TOE RAIL.



DECK LAYOUT DETAIL
WITH LONGITUDINAL WEARING COURSE

KEY NOTES:

- 1 SAFETY RAIL TO CONTAIN A 6" SPHERE UP TO 27" ABOVE THE DECK, AND AN 8" SPHERE FROM 27" ABOVE THE DECK TO THE TOP OF THE BRIDGE.
- 2) SEE FABRICATION AND MATERIAL NOTE 3 ON SHEET 1.
- (3) (2) MIDDLE DECK TIE-DOWN SLEEPERS REQUIRED.

DO NOT SCALE DRAWINGS

SHEET TITLE:

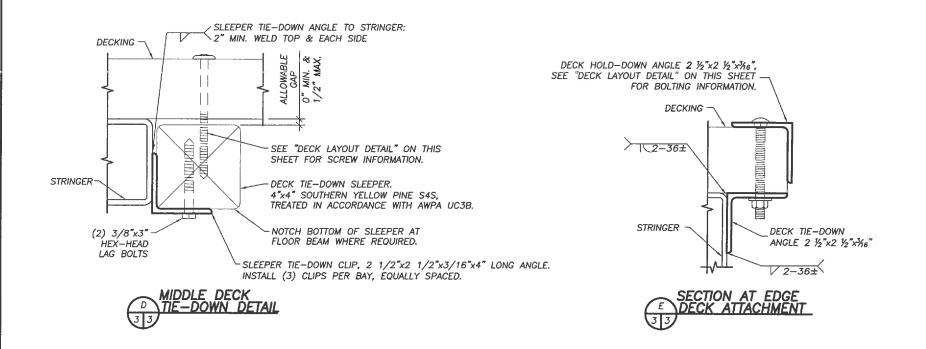
SECTION DETAILS

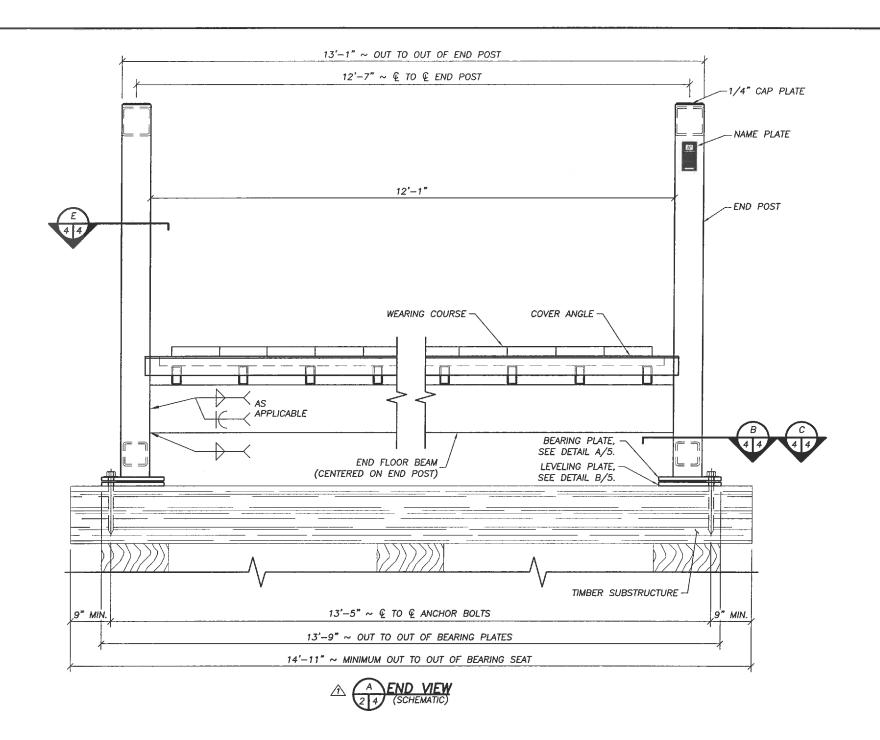
60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN



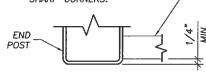
9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com

DATE: 9/29/17 TRACKING NO. T19464 SHEET NO. 3 of 5 CHK: JAS DWN: NBB ORDER NO. 14188





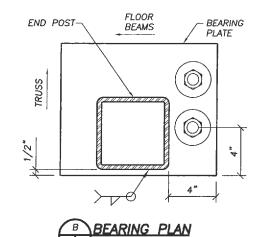
STEEL RAILING. PUSH BACK AS NEEDED, NO MORE THAN 1/2" OUT OF ALIGNMENT. WHEN THE 1/4" MINIMUM DIMENSION AS DETAILED CANNOT BE ACHIEVED, USE A COMBINATION OF WELDS AND GRINDING TO ELIMINATE SHARP CORNERS.

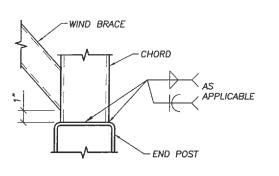




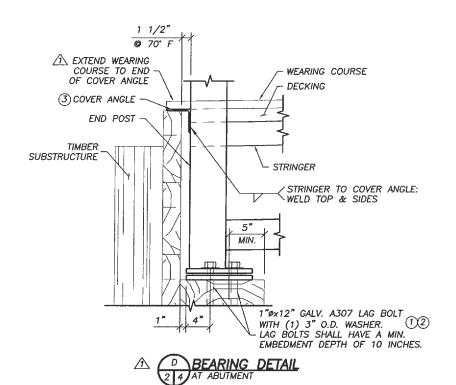
KEY NOTES:

- (1) HOLES DRILLED FOR 1" LAG BOLTS ARE TO BE 3/4" IN DIAMETER FOR THE THREADED PORTION OF THE BOLT AND 1 1/16" FOR THE SHANK.
- (2) EACH LAG BOLT SHALL BE TIGHTENED TO ELIMINATE ANY GAP AT WASHER BUT NOT BE FURTHER TIGHTENED SO THAT EXPANSION BEARING IS ABLE TO MOVE FREELY.
- (3) ALLOW COVER ANGLES TO JUST TOUCH THE TOP OF THE ABUTMENT BACKWALL, DO NOT ALLOW ANY BRIDGE WEIGHT TO REST ON COVER ANGLES.





END POST TO CHORD WELD DETAIL



DO NOT SCALE DRAWINGS

SHEET TITLE:

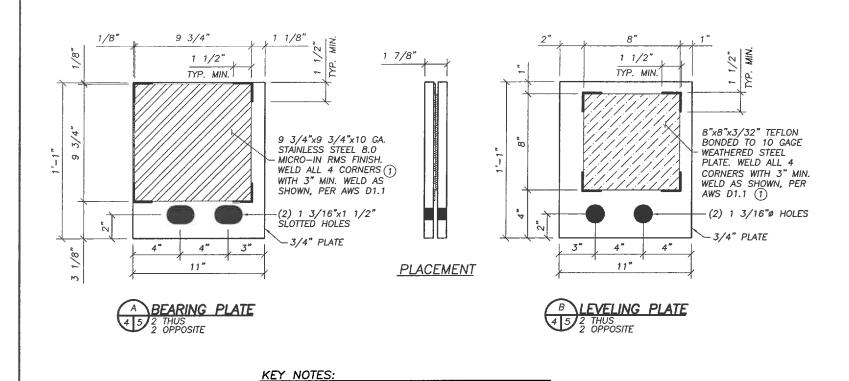
END VIEW DETAILS

60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN



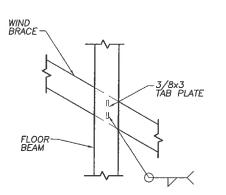
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DATE: 9/29/17		17	TRACKING NO. T19464	SHEET NO.
	CHK: JAS	DWN: NBB	ORDER NO. 14188	4 of 5

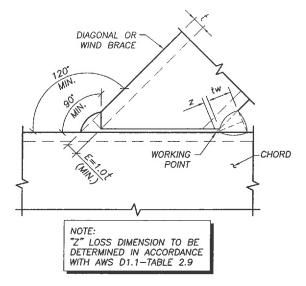


(1) TEFLON AND STAINLESS TO BE COVERED UP DURING SHIPMENT AND LIFTING TO AVOID ANY DAMAGE TO EITHER

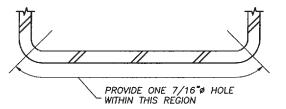
PRIOR TO BRIDGE PLACEMENT.



WIND BRACE TO FLOOR BEAM CONNECTION DETAIL



TYPICAL SKEWED MEMBER STANDARD WELD DETAIL



TUBULAR MEMBER WEEP HOLE DETAIL

- 1. WEEP HOLES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
- FLOOR BEAMS WITH SCREWED ON METAL DECK (LOW POINT)

- DIAGONALS WITH FIELD SPLICE (LOWER END) STRINGERS WITH FIELD SPLICE (NEAR EACH END FLOOR BEAM)
- OR OTHERWISE NOT COMPLETELY SEALED (LOW END OR BOTH
- END OF A LEVEL MEMBER)
 2. HOLE SHALL BE LOCATED AS NEAR THE END OF THE MEMBER AS
- 4. WEEP HOLES SHALL BE DRILLED.

- END POST(S) WITH NAME PLATE (LOWER END) CHORDS AND RAILING MEMBERS WITH FIELD SPLICE
- (NEAR EACH END POST)

- WIND BRACES WITH FIELD SPLICE (LOW POINT)
 ANY OTHER MEMBER WITH A HOLE OR DRILLED ATTACHMENT
- POSSIBLE, BUT NOT INTO WELD.
- 3. WEEP HOLES MAY BE DELETED AT FREE DRAINING OPEN ENDED LOCATIONS.

DO NOT SCALE DRAWINGS

SHEET TITLE:

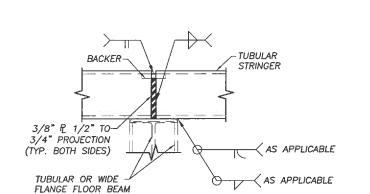
MISC. DETAILS

60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN

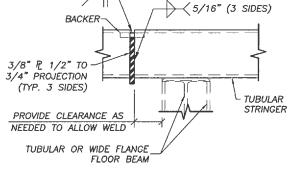


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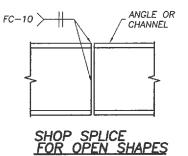
DATE: 9/29/17		TRACKING NO. T19464	SHEET NO.
CHK: JAS	DWN: NBB	ORDER NO. 14188	5 of 5

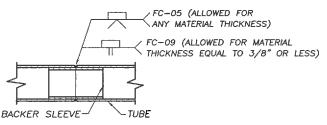


STRINGER SHOP SPLICE TYPE I SPLICE SHALL BE CENTERED OVER FLOOR BEAM

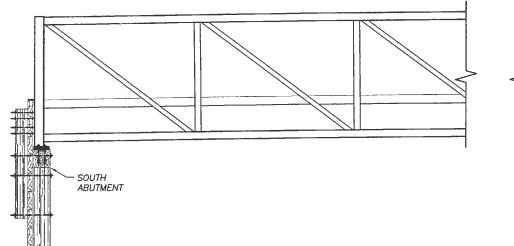


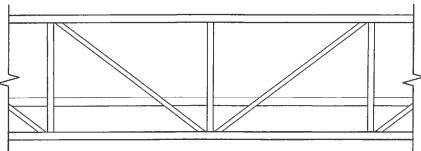
STRINGER SHOP SPLICE TYPE II
SHALL BE USED WHEN SPLICE IS NOT LOCATED
OVER A FLOOR BEAM. LOCATION IS UNRESTRICTED EXCEPT AS NOTED.

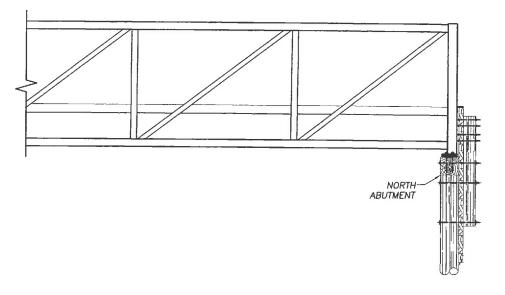


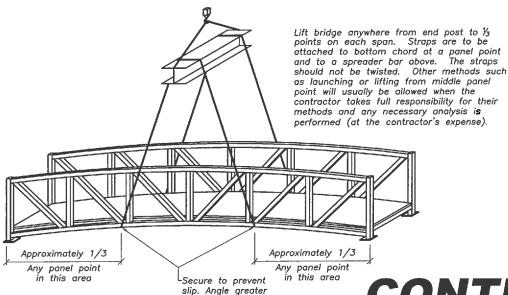


FULL PENETRATION SHOP SPLICE

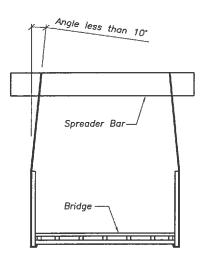








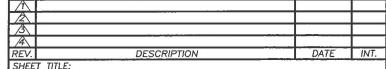
than or Equal to 60°.



CONTRACTOR MUST VERIFY NOT FOR CONSTRUCTION

BRIDGE INSTALLATION

- 1. Construct substructures with great care regarding squareness and distance between abutment backwalls and/or centerline of piers to precisely accommodate the bridge superstructure. MEASURE THESE DIMENSIONS IMMEDIATELY AFTER COMPLETION. If dimensions are incorrect, remove and replace or otherwise modify substructures as needed well before superstructure delivery to expedite installation. Also construct concrete substructures with great care regarding placement of rebars with respect to drilled anchor bolt locations; two inches clear from rebar to drilled anchor bolt is required and bars must surround anchor bolts on all sides. Re-measure rebar locations before placing concrete. For concrete or timber substructures, do not drill holes for anchor bolts until the bridge superstructure is sitting in the design position, unless indicated otherwise in the plans.
- 2. Before setting bridge in design position, remove temporary bolts and/or temporary spacer from bearings when applicable.
- 3. Install and fully tighten field splices when applicable. See plans for splice details. Railings may require adjustment to clear truss members during splice procedures. The contractor shall ensure that the bridge is safely supported and stabilized prior to anyone reaching inside the tube, where applicable. The bridge shall be blocked up to the correct profile before tensioning the bolts. All bolts, including filler block, shall be installed and fully tensioned while the bridge is safely supported and stabilized. Bolts shall be tightened in accordance with washer manufacturer and AASHTO. Tension indicating washers (provided) will be placed in the exact locations as indicated in the plans and installed as per the manufacturer's instructions (see www.turnasure.com for details).
- 4. Welding, drilling, cutting, grinding, and any other alterations performed without written permission may affect warranty coverage.
- 5. When substructures are not at equal elevations, make sure bridge span is sloped correctly. Bridge span order number & substructure location will be hammer—stamped on cover plates (or on nearest structural member to name plate). When bridges have a combination of fixed and expansion bearings, be sure the expansion bearings (with slotted holes) are placed on the correct substructure, and also note that the specified joint opening is most critical at expansion substructures. When bridges have all expansion bearings, slight variations in joint openings should be equally
- 6. For final elevation adjustment of bridges and Bearing Installation Sequence, see next sheet.
- 7. When applicable, touchup paint shall be field applied, after assembly, in regions of splices and in areas of damaged shop applied paint. Faying surfaces of splices shall not be painted unless indicated otherwise in the plans.
- 8. Some additional items may be shipped loose and require field installation, see plans.



INSTALLATION INSTRUCTIONS

60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN

\vdash		*	
	Common Wrench Sizes:		
	Nut Size	Bolt Head	Bolt Dia.
	1-1/4"	1-1/4"	3/4"
] [1-5/8*	1-5/8*	1"

2"

2"

Wrench

Size

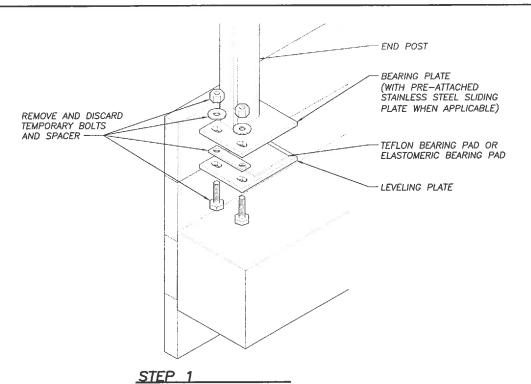
1 1/4"

11	Wheeler
11	VV HEELEI
IN	

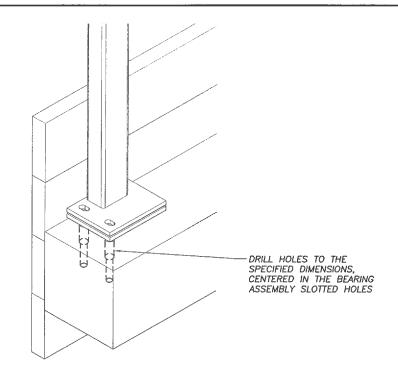
9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com

E1 of E2

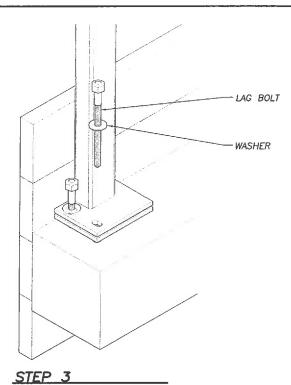
DATE: 9/29/17		TRACKING NO. T19464	SHEET NO.
CHK: JAS	DWN: NBB	ORDER NO. 14188	E1 of



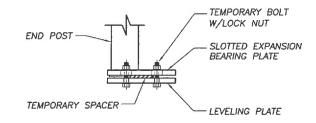
Before setting bridge in final position, remove temporary bolts and/or temporary spacer from bearings when applicable. Use caution not to damage or scratch Teflon and stainless steel or elastomeric bearing pad (as applicable).



Drill holes into the substructure (through bearing plates), centered on slotted holes when applicable, after the bridge is in the final position unless indicated otherwise in the plans. Be careful regarding the depth of holes into the timber cap; hole sizes for the threaded portion of the bolt and the shank may vary.



Install lag bolts and washers as noted in plans.

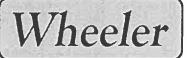


BEARING ASSEMBLY
As shipped condition.

SHEET TITLE:

BEARING INSTALLATION SEQUENCE

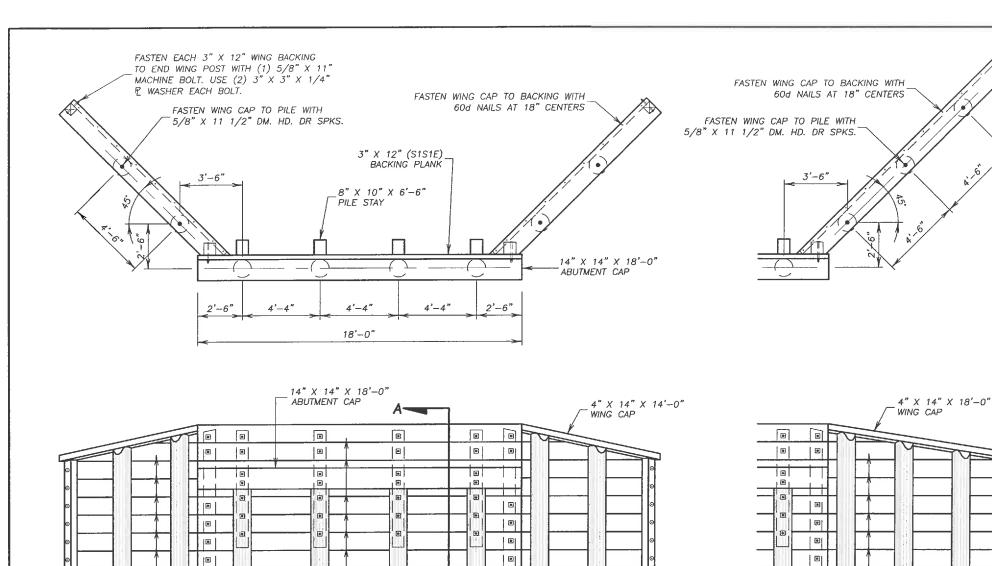
60'-0" PEDESTRIAN BRIDGE 12'-0" WALKWAY PLUM CREEK BRIDGE VILAS COUNTY, WISCONSIN



9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com

 DATE:
 9/29/17
 TRACKING NO.
 T19464
 SHEET NO.

 CHK:
 JAS
 DWN:
 NBB
 ORDER NO.
 14188
 E2 OF E2



•

6" X 6" X 16'-0" _

END WING POST. FASTEN

ABUTMENT PLAN & ELEVATION

NORTH ABUTMENT SHOWN, SOUTH ABUTMENT SIMILAR

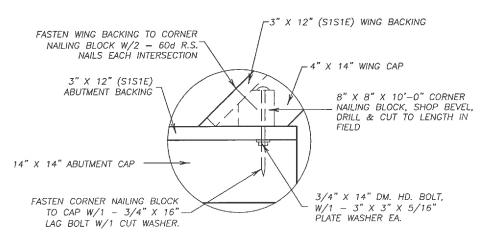
3" X 12" X 18'-0"

(S1S1E) ABUTMENT

BACKING PLANK

3" X 12" X 12'-0"

(S1S1E) WING BACKING PLANK



DETAIL A

SW WING PLAN & ELEVATION

ABUTMENT NOTES:

FASTEN BACKING TO PILES WITH (2) 60d NAILS @ EACH INTERSECTION.

GEOTEXTILE FABRIC TO BE STAPLED TO BACKSIDE OF ABUTMENTS & WINGS. STAPLES BY CONTRACTOR.

PILE CUT-OFFS TO BE FIELD TREATED WITH AN APPROVED PRESERVATIVE AND ONE COAT ASPHALT PAINT SUPPLIED BY BRIDGE MANUFACTURER.

3" X 12" X 16'-0"

(S1S1E) WING

BÀCKING PLANK

ABUTMENT PILE NOTES:

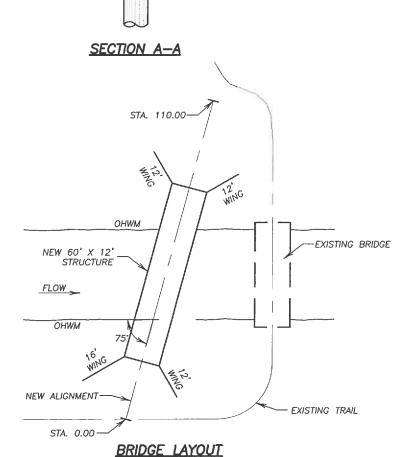
(9) Q-NAP WING PILES 25 FT. LONG (8) Q-NAP ABUTMENT PILES 25 FT. LONG

PILE LENGTHS SHOWN ARE ESTIMATED. ACTUAL

MINIMUM PILE PENETRATION TO BE 12 FT. BELOW GROUND LINE.

6" X 6" X 16'-0"_

END WING POST. FASTEN



3/4" X 15" MACHINE BOLTS WITH -(2) 3" X 3" X 5/16" P WASHERS, BACKING TO PILE STAY

72,

0 1

3" X 12" ABUTMENT BACKING, S1S1E

-8" X 10" X 6'-6" PILE STAY

3/4" X 30" DRIFT PIN CAP TO PILING

14" X 14" ABUTMENT CAP

PROPOSED GOUNDLINE-

3/4" X 30" MACHINE BOLTS WITH (2) 3" X 3" X 5/16" F WASHERS,-PILE STAY TO ABUTMENT CAP

3/4" X 27" MACHINE BOLTS WITH

(2) 3" X 3" X 5/16" P WASHERS, PILE STAY TO ABUTMENT PILE

REVISION: ADDED ORDER NO. & BACKWALL HEIGHT DIMENSION 4/24/18

ABUTMENT PLAN & ELEVATION PLUM CREEK BRIDGE, VILAS CO., WISCONSIN



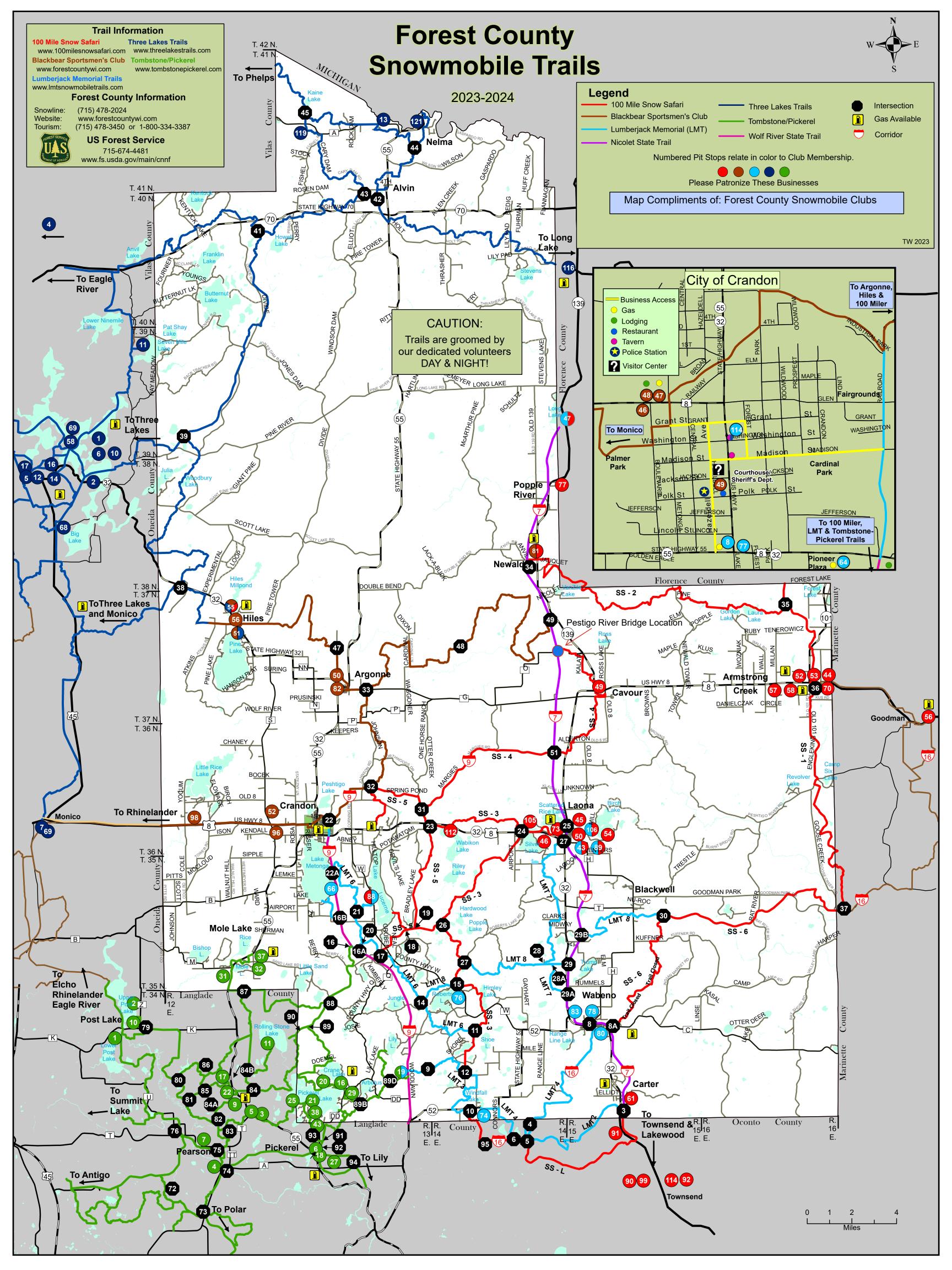
Bloomington, MN 55431 952-929-7854 info@wheeler1892.com wheeler1892.com

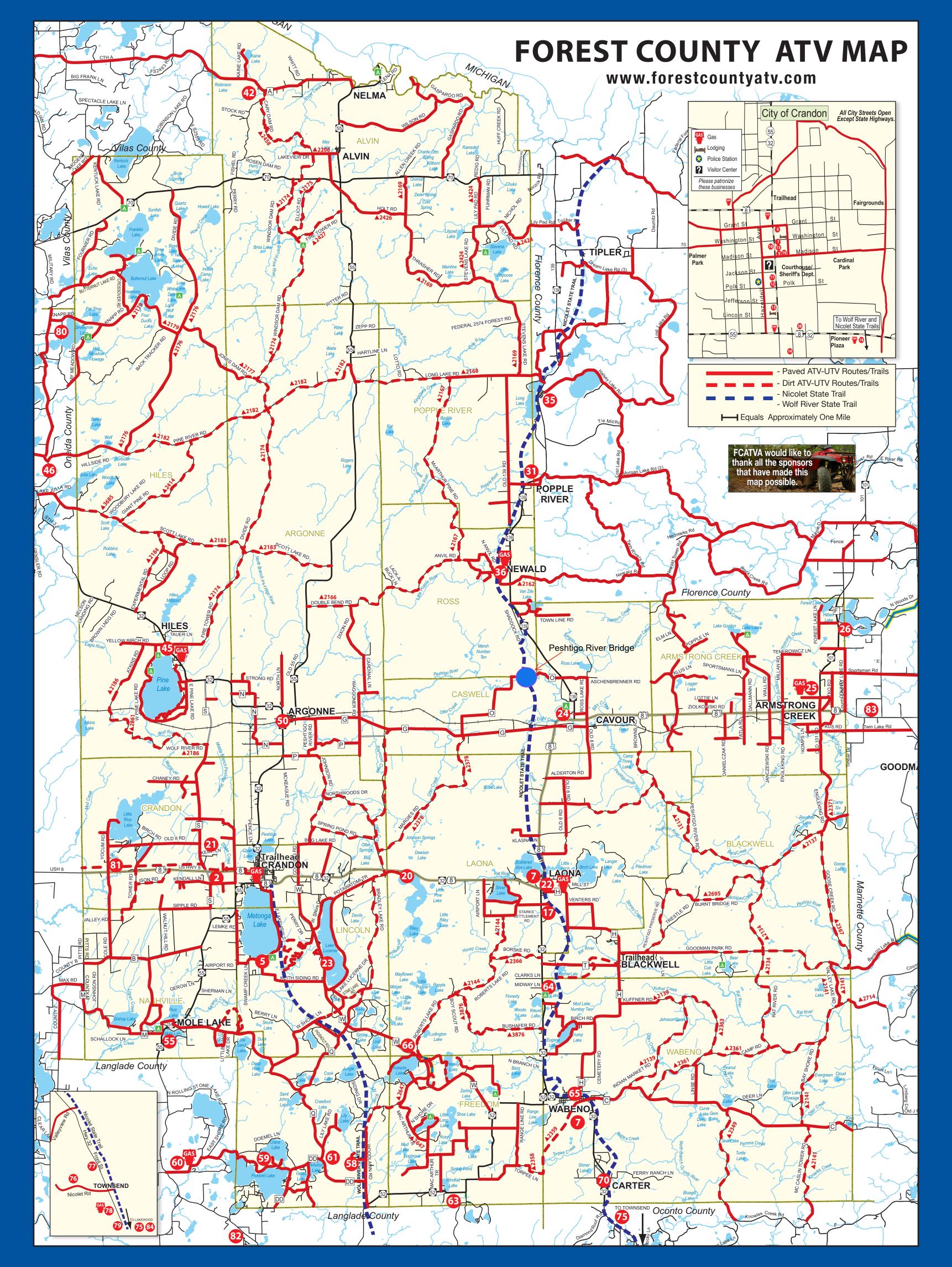
9330 James Ave. S.

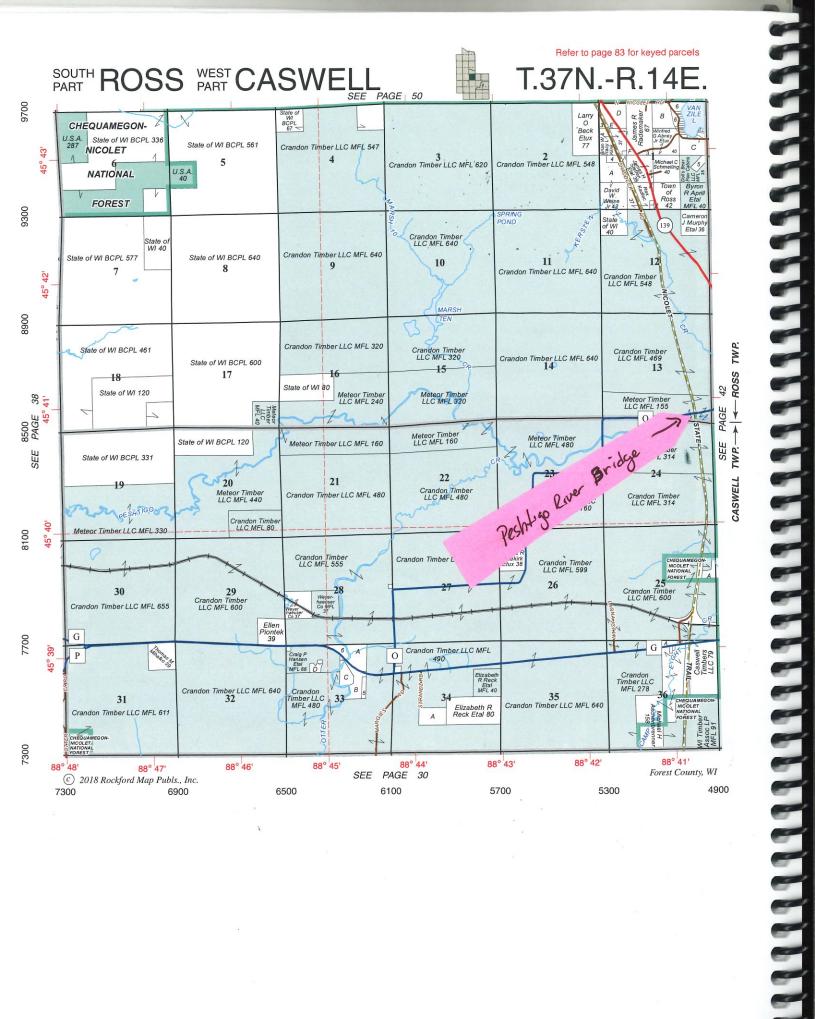
TRACKING NO. T19464 DATE: 10/6/17 SHEET NO. ORDER NO. 14189 1 OF DWN: WEH CHK: AJH

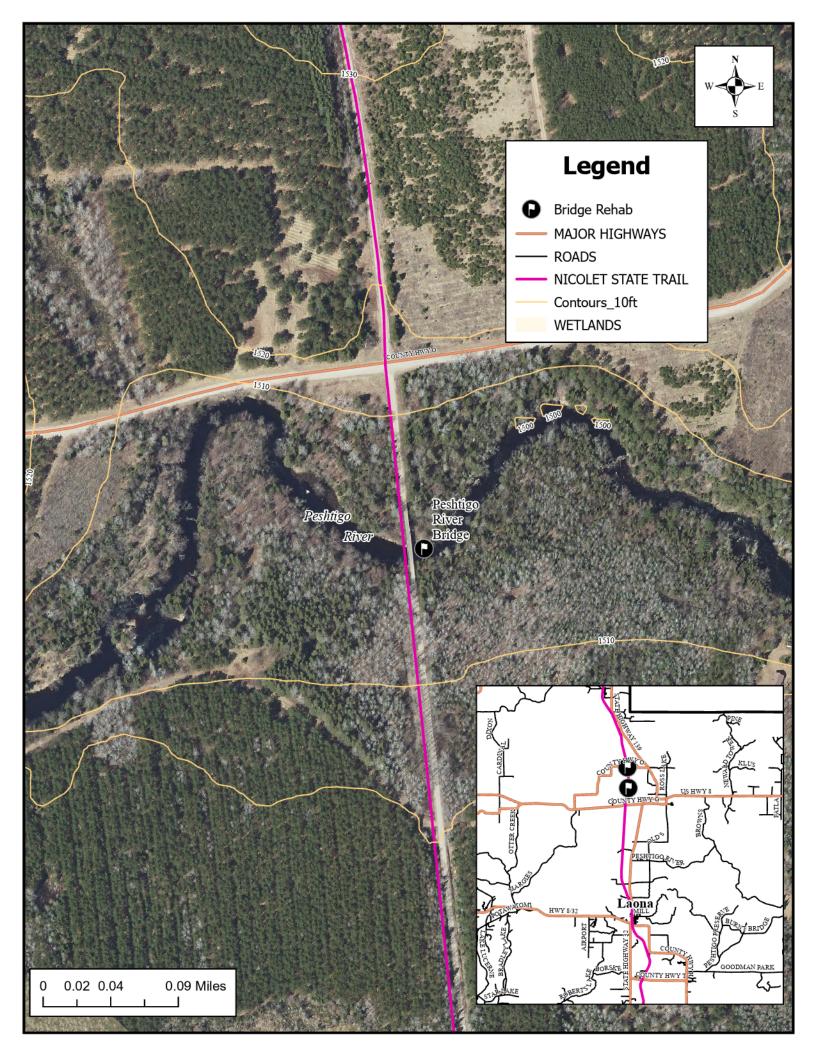
COMPUTED UNFACTORED DESIGN LOAD FOR THE ABUTMENT BEARING PILES IS 15 TONS EACH.

LENGTHS ARE TO BE BASED ON TEST PILE DATA.









Will the cost of these be waived due to they are bridges owned by the State?

From: Koehnke, Scott E - DNR < Scott. Koehnke@wisconsin.gov>

Sent: Monday, March 17, 2025 8:40 AM

To: Travis Wollenberg < Travis@co.forest.wi.us>

Subject: RE: Permitting

Caution: This is an external email and may be malicious. Please take care when clicking links or opening attachments.

Hi Travis,

30-12 = GP

Peshtigo = IP

Swamp Creek = GP

Let me know if you have questions or need clarification.

Scott Koehnke

Senior Water Management Specialist – Waterways/Wetlands

Wisconsin Department of Natural Resources

647 Lakeland Road, Shawano, WI 54166

Phone: 715/526-4232

scott.koehnke@wisconsin.gov



dnr.wi.gov

Our core values include professionalism, integrity, and customer service.

Please visit our survey to provide feedback on your experience interacting with any DNR employee.





From: Travis Wollenberg < Travis@co.forest.wi.us>

Sent: Monday, March 17, 2025 7:06 AM

To: Koehnke, Scott E - DNR < Scott. Koehnke@wisconsin.gov >

Subject: RE: Permitting



Trail Bridge Inspection Forest County

Bridge Name

Peshtigo River

Inspected By:
Patrick Hampston, P.E.

5/3/2025

Prepared By KBIS, LLC





Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. Inspectors are Bridge Inspection Team Leaders and NSTM certified inspectors.

The bridge was inspected with trail use in mind, using normal vehicle bridge standards to determine the condition of the structure.

All recommendations made in the report are also considering the use of the trail. Trail bridges in general should have a load rating considering all the possible uses of the structure. Even though the bridges may be just for snowmobiles, several types of vehicles may use the structure.

Location information/General Description:

Located just south CTY O, Forest County. 45.68005, -88.67886

Bridge Condition

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

Abutments, pile bents, and spans are numbered along the trail from south to north. Girders are numbered from upstream to downstream.

Bridge has steel railings, double layer of longitudinal timber deck planks (top wearing surface, bottom structural deck), transverse steel HSS floorbeams, (6) SS timber girders in two bundles of three in approach spans / steel plate girders in main span, timber post abutment on timber cap and subgrade timber piling at approach spans and concrete piers at main span.

Length 193.8', Width 12.0', 20'+ clearance to stream bottom.

Minor gravel on deck. Scattered wear plank ends sticking up 1"+. 10-20 rotten wear planks. Both wear plank and structural deck underneath rotten through in two locations. First is a 1 SF hole at the center of the bridge and the second is a 1' x 3' hole along the east edge in span 7. The surrounding areas in these regions are rotten on the underside.

Steel main span is in fair condition (1925 construction plaque). Some exterior timber girders are punky.

South abutment has rotten piling. Bent #1 pile cap is rotten / crushing. Bent #2 center pile is hollow. Concrete pier #3 has a very large CS3 spall on the upstream and top edge, widespread CS3 cracking with rust stained



Bridge Inspection Report

Bridge Condition

effloresence. Top section of pier is timber and the cap is rotten / crushing. Concrete pier #4 has very large 4'x4'x1' CS3 spalls at both the upstream and downstream top edge. CS3 cracking with effloresence throughout. Bents #5-8 in fair condition. Bent #9 cap is rotten / crushing. Bent #10 cap is rotten. Bent #11 cap ends are rotten. North abutment cap ends are rotten.

Channel is in good condition with lots of trees and brush in floodplain under bridge.

Approaches are in good condition. Object markers are in place and serviceable. Both bridge ahead signs are in place and serviceable.



Bridge Inspection Report

Report Summary

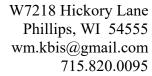
NBI Ratings: 9-7 Good, 6-5 Fair, 4-3 Poor, 2-1 Critical, 0-Closed

Deck	# 4	Isolated major defects, strength affected
Wearing Surface	# 4	Isolated major defects, strength affected
Superstructure	# 5	Some moderate defects
Substructure	# 3	Major defects, strength affected, more frequent monitoring necessary
Channel	# 7	Some minor defects
Overall Condition	Poor	

Recommendations/Maintenance Items:

Reduce inspection cycle to 12 months
Replace bridge in next 1-3 years
Clean deck
Cut brush around / under bridge
Replace entire deck with copper naphthenate treated timber planks

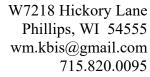
Patrick Hampston, P.E.







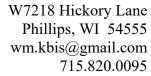
North bridge ahead sign







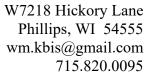
South bridge ahead sign







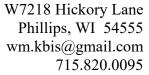
North approach







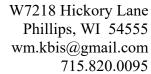
Missing / rotten wear planks







Decking is MCA treated to UC4A which is insufficient for structural applications







Patched hole near center of bridge



Bridge Inspection Report



Channel looking upstream

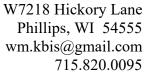




Photo Observations

KBIS



Patched hole at east edge of span 7



Bridge Inspection Report



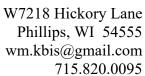
Channel looking downstream







Running planks with ends sticking up 1"+



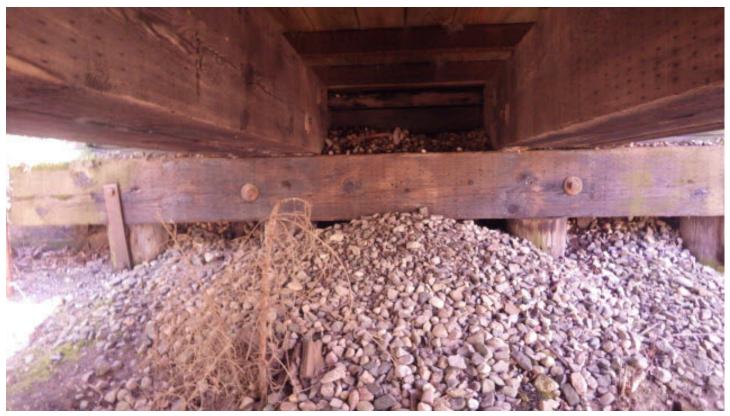




South approach



Bridge Inspection Report



South abutment rotten piling



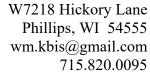


Photo Observations

KBIS



South abutment rotten piling







typical underside of deck, scattered black mold.

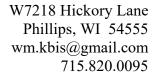


W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report



Bent #1, cap rotten / crushing







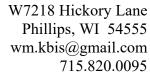
Bent #1, cap rotten / crushing







Bent #2 (top), center pile hollow







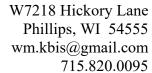
Bent #2 (bottom), center pile hollow





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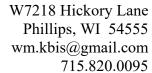
Bent #2, center pile hollow







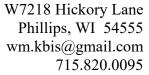
Pier #3, timber cap rotten / crushing







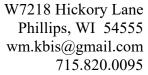
Pier #3, timber cap rotten / crushing (close-up)







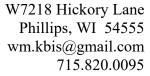
Pier #3 concrete wall with very large spall on upstream nose and top edge with CS3 cracking with rust stained effloresence throughout







Pier #3 concrete wall with very large spall on upstream nose and top edge with CS3 cracking with rust stained effloresence throughout







Steel main span in fair condition

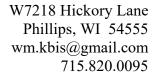


W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report



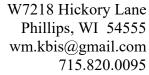
Steel main span in fair condition







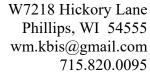
Constructed in 1925 by the American Bridge Company







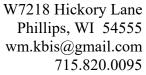
Pier #4 with very large spalls on top corners and CS3 cracking with effloresence throughout







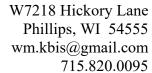
Pier #4 with very large spalls on top corners and CS3 cracking with effloresence throughout







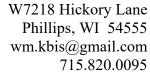
Pier #4 with very large spalls on top corners and CS3 cracking with effloresence throughout







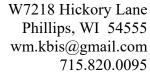
Upstream elevation view







Underside of deck at hole in center of bridge. Note other rotten areas.





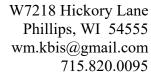


Underside of deck at hole in east edge of span 7. Note other rotten areas.





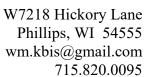
Bent #9 cap is rotten / crushing







Bent #9 cap is rotten / crushing (close-up)







North abutment cap ends rotten