## REHABILITATION STRUCTURE SURVEY REPORT Wisconsin Department of Transportation DT1696 4/2017

□ P. Other: \_\_\_\_\_

RECEIVED 5/13/2019 BUREAU OF STRUCTURES

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	_	Culvert					
Railroad Retainin							
☐ Sign Structure ☐ O							
For guidance see: http://wiscons	indot.gov/Pages/doing-bus/eng-	consultants/cnslt-rs	rces/strct/s	urvey.a	<u>spx</u>		
Design Project ID 5820-00-30	Highway (Project Name) Coon Valley - Bangor						
Final Plan Due Date	5820-00-60 Preliminary Plan Due Date	☐ Town ☐ Villag					
3/1/2023 (3/1/2021 Advanceable)	10/1/2019	Bangor					
PS&E Date	Letting Date	County					
5/1/2023 (5/1/2021 Advanceable)	11/14/2023	La Crosse					
Structure Number B-32-0015		Section 08	Town Range 05W				
Station	Latitude: 435245.95	☐ YES ☒ NO Structure Located on National Highway System					System
- 104885"	Longitude: 905955.72			··· =			
For Survey and CADD Files  Horizontal Coordinate System: -			Average		ecast Data Roadwa	y	
Vertical Datum: -		Design Year	Traffic (A		Design Speed		Functional Class
Feature On STH 162		Feature On 2044	2,20	2,200			Major Collector
Feature Under Dutch Creek		Feature Under					
Region Contact: Todd Waldo		Consultant Contact:	L Knight E/A				
(Area Code) Telephone Number(s): (6	08) 785-9462	(Area Code) Telephone Number(s): (608) 713-9274					
Email: todd.waldo@dot.wi.gov		Email: rmckane@	knightea.co	om			
	Work	To Be Performe	d				
							nation Required
	Repair					nber	<u>(see Pages 2–4)</u>
						2, 26-	-28, 32, 34
•	rete Overlay	☐ Asphalt Overlay					, ,
☐ Polym	ner Modified Asphalt Overlay	☐ Thin Bonded Polymer Overlay					
☐ Other	: <u></u>						
□ C. New Bear	ings				3, 8, 9, 22		
□ D. New Railing	15–17, 20–23						
☐ E. Curb and	2, 3, 16, 22, 23						
	2, 3, 12, 16						
☑ G. Pier Reparation				2, 3, 12, 10	6		
☐ H. New Deck				1–6, 9, 10,	, 13–2	28, 32–34	
☐ I. Widening				1–28, 30, 3	32–35	5	
☑ J. Joint Reparent				2, 3, 8, 16,	, 19, 2	22	
				2, 3, 22			
☐ L. Raising B	ridge				3, 6, 9, 16, 20–24		
☑ M. Slope Sta	bilization				1–3, 30		
☐ N. Scour Rep	pair				1, 2 or 3, 1	6, 19	, 21, 27, 29, 31–35
☑ O. Painting					16, 22, 24		

## **Field Information Required**

If no structure number exists provide the following: Small County Map on which the location of proposed structure is shown in red and any highway relocation in green. In addition, provide Location Map of scale not less than 1" = 2000' showing the structure location and number.

- ☑ 1. Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
- ☑ 2. Outline deficient areas on existing structure plan or drawing.
- ☑ 3. Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photograph all deficient areas. Clearly label all photographs.
- ☐ 4. Provide proposed typical section for roadway and structure showing dimensions and cross slopes.
- ☐ 5. Survey beam seat or girder elevations at both sides of bridge at all substructure units.
- ☐ 6. Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 feet beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and gutter line. Take elevations along joints and at floor drains.
- ☐ 7. Show and identify starting stationing on bridge.
- - (a) Joint opening measured normal to joint at centerline of roadway and both curb lines.
  - (b) Clearance between girder ends at piers.
  - (c) Distance from front face of abutment backwall to closest point of girder end measured parallel to girder.
  - (d) Temperature of structure determined by averaging top and under deck (if accessible) readings.
- ☑ 9. Fixed and expansion bearings condition and orientation.

Preparation, Decks, Type 1	Sq. Yd. <u>3</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>1</u>	
Full Depth Deck Repair	Sq. Yd. <u>1</u>	Galvanic Anodes? NO
Concrete Surface Repair Superstructure	Sq. Ft. <u>430</u>	Galvanic Anodes? NO
Concrete Surface Repair Substructure	Sq. Ft. <u>204</u>	Galvanic Anodes? NO
Curb Repair	LF. <u>0</u>	Galvanic Anodes? NO

	Deck Condition	Superstructure Condition			Structural EVAL Appraisal	
Current	6	6	5	х	х	

## 

	Inventory	Operational	
Current	11000	11000	
Calculated Date: 5/24/2013	HS20	HS33	
After	HS22	LIC27	
Completed by Bridge Designer	NO22	HS37	

_	_					Opening at		_
-	Туре	Owner and Contact In	nformation		Size	Abutment	Weight	Pressure
_								
_								
	_	dge railing deficient? lo If Yes – Replac	? ement Rail Type: Reti	rofit to comply	with curr	ent standards		
⊠ 18	8. Drains to be: ☐ Raised	☐ Closed	☐ Downspouted	□ New				
⊠ 19		ined on bridge durin Io If Yes – Include	-					
⊠ 20	0. Will guard rail ⊠ Yes  □ N	be attached? lo If Yes – Which	corners? All four					
⊠ 2		e performed elimina lo If No – Explain:						
⊠ 2:		aste (asbestos) to be lo If Yes – Explair						
□ 2:	3. Wing location	(s) for surface drain	anchors: N/A					
⊠ 24		lo If Yes – Explair n, color system, contain						
□ 2		vay width: <i>(new deck</i> valk clear width:     L		Ft. ht: Ft.				
⊠ 20	6. Maximum inci	rease in grade line e	elevation <u>1</u> In.					
□ 2 <sup>-</sup>	7. Benchmark de	escription to be show	wn					
⊠ 28	8. Desired final of	cross slopes on brid	ge <u>0.02</u> Ft./Ft.					
□ 2 <u>9</u>	<ul> <li>Streambed</li> </ul>	on Drawings	luding: Pier, Footing and Sea	al Elevations				
⊠ 30	0. Slope stabiliza Type: <u>Ripra</u> Slope: <u>2:1</u> F	<u>o</u> Quantit	ry: <u>287</u> CY. CY.					
□ 3	-	lated Mats (for Scou (for Scour) ap	or proposed scour repartur) CY CY CY CY CY. CY.	air.				

☑ 32. Report submitted with Preliminary Plan requires no CADD file submittal (See ESubmittal instructions).
 ☐ 33. Report submitted for development of Preliminary Plan to structure design engineer requires CADD file (if available) submittal and Report submittal to Soils Engineer if project involves foundation modifications.
 ☑ 34. Coordinate with structure design engineer before going into the field if existing structure has no available plans, if staged construction is planned, or if there are adjoining/adjacent structures that will remain in place.
 ☐ 35. If project involves substructure widening coordinate with structure and/or hydraulic design engineer to determine if information on the separation and/or stream crossing SSR will be required.

## **Additional Information**

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction.

Please be as detailed and specific as possible.

- 1. New structure in 1952, new deck in 1985, and structure painting in 1989.
- 8a. Joint opening South Abutment: east end = 1/2", centerline = 3/4", west end = 1 1/2"
  - North Abutment: east end = 1 1/4", centerline = 1/2", west end = 1/2"
- 8c. Distance from abutment backwall to edge of girder, parallel to girder = 8.5" at South Abutment, Girder 5E 8d. Average temperature of deck = 53°
- 9. Bearings oriented north and south. Per Inspection Report (8/2/2017) condition moveable bearings have heavy laminated corrosion on masonry plates and hardware. Movement of bearings may be restricted by pack rust. Fixed bearing have no noticable damage and will not be replaced.
- 10. Proposed number of pours =1. Bridge will be closed to traffic and the overlay will be poured all at once. Pour width = 26'
- 11. Centerline longitudinal joint.
- 17. Existing railing is not to current height standards and will be retrofitted to be raised to required heights.
- 24. Railing to be spot painted or regalvanized. Girders to be cleaned and painted according to 517.3000.S, Structure Overcoating Cleaning and Priming.
- 34 . N/A

No Concrete Approach Slab is proposed at the request of Region due to no existing issues at structure.