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

☐ Grade Separation	Stream Crossing	Culvert
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□ Railroad □ Retaining Wall □ Noise Barrier

Sign Structure Other: __

For guidance see: http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx

Design Project ID	Construction Project ID	Highway (Project Na	Highway (Project Name)				
1196-05-07	1196-05-77	USH 53 NB					
Final Plan Due Date	Preliminary Plan Due Date	🛛 Town 🗌 Villag	Town 🗍 Village 🗍 City				
2/1/2019	11/16/2018	Dovre					
PS&E Date	Letting Date	County					
5/1/2019	11/12/2019	Barron					
Structure Number		Section	Town		Range		
B-03-0017		16 T32N R10W			R10W		
Station	Latitude: 45Deg 15'26" N	🖾 YES 🗌 NO	X YES NO Structure Located on National Highway System				
284+51	Longitude: 91Deg 36'41"W						
For Survey and CADD Files Horizontal Coordinate System: BARRON COUNTY		Traffic Forecast Data					
			Average Daily	Roadway			
Vertical Datum: NAVD 88		Design Year	Traffic (ADT)	Design Spee	ed Functional Class		
Feature On		Feature On	5550 70MP		PRINCIPAL		
USH 53 NB		2014	5550		ARTERIAL		
Feature Under		Feature Under		55MPH MINOR			
CTH AA		2000	270	ASSUME	D COLLECTOR		
Region Contact: Brendan Dirkes		Consultant Contact: Jarrod Starren					
(Area Code) Telephone Number(s): (715) 395-3026		(Area Code) Telephone Number(s): (715) 720-6261					
Email: brendan.dirkes@	Email: jstarren@sehinc.com						

Work To Be Performed

				Field Information Required Item Number (see Pages 2–4)
	Α.	Structural Repair		· • • /
\boxtimes	В.	Overlay		1–3, 10–22, 26–28, 32, 34
		🖾 Concrete Overlay	Asphalt Overlay	
		Polymer Modified Asphalt Overlay	Thin Bonded Polymer Overlay	
		□ Other:		
	C.	New Bearings		3, 8, 9, 22
	D.	New Railings		15–17, 20–23
	Е.	Curb and Sidewalk Repair		2, 3, 16, 22, 23
	F.	Abutment Repair		2, 3, 12, 16
	G.	Pier Repair		2, 3, 12, 16
	Н.	New Deck		1–6, 9, 10, 13–28, 32–34
	١.	Widening		1–28, 30, 32–35
\boxtimes	J.	Joint Repair		2, 3, 8, 16, 19, 22
	K.	Surface Repair		2, 3, 22
	L.	Raising Bridge		3, 6, 9, 16, 20–24
	M.	Slope Stabilization		1–3, 30
	N.	Scour Repair		1, 2 or 3, 16, 19, 21, 27, 29, 31–35
	О.	Painting		16, 22, 24
	Ρ.	Other:		

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.
- 8. Record measurement, temperature of the structure, and date taken for each of the following:
 - (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.
- ⊠10. Number and width of proposed pours including construction staging sequence.
- \boxtimes 11. Location of existing construction joints in the deck.
- \boxtimes 12. Estimated Quantities:

Preparation, Decks, Type 1	Sq. Yd. <u>72</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>36</u>	
Full Depth Deck Repair	Sq. Yd. <u>1</u>	Galvanic Anodes? <u>No</u>
Concrete Surface Repair Superstructure	Sq. Ft. <u>N/A</u>	Galvanic Anodes? <u>No</u>
Concrete Surface Repair Substructure	Sq. Ft. <u>N/A</u>	Galvanic Anodes? <u>No</u>
Curb Repair	LF. <u>N/A</u>	Galvanic Anodes? <u>No</u>

- ⊠13. Sufficiency number: <u>99.7</u> (obtain from HSI Bridge Inventory System)
- ☑ 14. Appraisal and Condition Rating

_		Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
C	urrent	7	7	7	5	7

⊠ 15. Load Ratings

	Inventory	Operational
Current	HS 26	HS 37
Calculated Date: 8/7/2013	10.20	110 37
After		
Completed by Bridge Designer		

☑ 16. Utilities on/near Structure. (WisDOT policy is to avoid placing utilities on the structure.) □ Yes ☑ No

Type Owner and Contact Information		Size	Opening at Abutment	Weight	Pressure		
	-	dge railing deficient? Io If Yes – Replacement Rail Type: 42SS					
	18. Drains to be: □ Raised	□ Closed □ Downspouted □ New					
		ined on bridge during work? Io If Yes – Include sketches					
	20. Will guard rail ⊠ Yes □ N	be attached? Io If Yes – Which corners? South corners					
	21. Will work to be performed eliminate all deficiencies? ⊠ Yes □ No If No – Explain:						
		aste (asbestos) to be removed? lo If Yes – Explain:					
	23. Wing location	(s) for surface drain anchors:					
	24. Painting? ☐ Yes ☐ No If Yes – Explain on Page 4 (all, part, railing, color system, containment, bid items)						
		vay width: <i>(new deck / widening)</i> Ft. /alk clear width: Left: Ft. Right: Ft	t.				
\boxtimes	26. Maximum incr	rease in grade line elevation <u>0</u> In.					
\boxtimes	27. Benchmark description to be shown						
\boxtimes	28. Desired final cross slopes on bridge <u>0.02</u> Ft./Ft.						
	 29. Underwater Inspection Report including: Streambed Cross Section With Pier, Footing and Seal Elevations Pier Elevation Drawings Pier Layout Hydrographic Survey 						
	30. Slope stabiliza Type: Slope:	ation, provide: Quantity: CY. _ Ft./Ft. Fill: CY.					

CY.

Extra Heavy Riprap

- 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.

Work to be performed consists of the following: Concrete overlayarapets, replace north joint strip seal with new strip seal joint.

Bridge will be closed to traffic while construction takes place.

Deficient areas consist of the deck.

Fixed at south abutment na pier, expansion at north pier and abutment.

Construction joint 7'-2 1/2" east from NB RL.

No utilities are known to exist on the bridge.

No drains on existing bridge deck.

Beam guard will be attached to the south wings only.