Grade Separation       Stream Crossing       Culvert         Railroad       Retaining Wall       Noise Barrier         Sign Structure       Other:         For guidance see: <a href="http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx">http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx         Design Project ID       Construction Project ID       Highway (Project Name)         1196-04-02       1196-04-77       USH 53</a>					
Sign Structure       Other:         For guidance see: <a href="http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx">http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx</a> Design Project ID       Construction Project ID       Highway (Project Name)					
For guidance see: <a href="http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx">http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx</a> Design Project ID       Construction Project ID       Highway (Project Name)					
Design Project ID     Construction Project ID     Highway (Project Name)					
Final Plan Due Date     Preliminary Plan Due Date     Image     City       3/1/2020     6/28/2019     Chetek					
PS&E DateLetting DateCounty5/1/202011/10/2020Barron	,				
Structure NumberSectionTownRangeB-03-00243133N10W					
Station     Latitude: 451812.82       429+20     Longitude: 913932.6	YES NO Structure Located on National Highway System				
For Survey and CADD Files Traffic Forecast Data	Traffic Forecast Data				
Horizontal Coordinate System: NAD83 (2011), Barron County       Average Daily       Roadway         Coordinate System       Vertical Datum: NAVD88 (2012)       Design Year       Traffic (ADT)       Design Speed       Function	onal Class				
6.3// 80	incipal rterial				
	/lajor Illector				
Region Contact: Brendan Dirkes Consultant Contact: Brett Oftedahl					
(Area Code) Telephone Number(s): 715-395-3026 (Area Code) Telephone Number(s): 608-251-4843 Email: Brendan.Dirkes@dot.wi.gov Email: brett.oftedahl@strand.com					

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## Work To Be Performed

		i i cinc	le Belleninea	
				Field Information Required Item Number (see Pages 2–4)
$\boxtimes$	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
	J.	Joint Repair		2, 3, 8, 16, 19, 22
$\boxtimes$	K.	Surface Repair		2, 3, 22
	L.	Raising Bridge		3, 6, 9, 16, 20–24
	М.	Slope Stabilization		1–3, 30
	N.	Scour Repair		1, 2 or 3, 16, 19, 21, 27, 29, 31–35
	0.	Painting		16, 22, 24
$\boxtimes$	Ρ.	Other: Wing Replacement and Prestress	ed Girder Repair	

1

### **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.
- ⊠12. Estimated Quantities:

Preparation, Decks, Type 1	Sq. Yd. <u>30</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>15</u>	
Full Depth Deck Repair	Sq. Yd. <u>5</u>	Galvanic Anodes?
Concrete Surface Repair Superstructure	Sq. Ft. <u>190</u>	Galvanic Anodes?
Concrete Surface Repair Substructure	Sq. Ft. <u>55</u>	Galvanic Anodes?
Curb Repair	LF. <u>0</u>	Galvanic Anodes?

- ⊠ 13. Sufficiency number: <u>88.0</u> (obtain from HSI Bridge Inventory System)
- ⊠ 14. Appraisal and Condition Rating

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
 Current	5	5	6	5	5

⊠ 15. Load Ratings

	Inventory	Operational	
Current Calculated Date: 8/8/2013	HS22	HS37	
After Completed by Bridge Designer	Completed During Final Design	Completed During Final Design	

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

	Туре	Owner and Contact Information	Size	Opening at Abutment	Weight	Pressure	
	17. Is existing bridge railing deficient? □ Yes ⊠ No If Yes – Replacement Rail Type:						
	18. Drains to be: □ Raised □ Closed □ Downspouted □ New						
	19. Traffic maintained on bridge during work? ⊠ Yes □ No If Yes – Include sketches						
	20. Will guard rail be attached? ⊠ Yes □ No If Yes – Which corners? Wing 3 and Wing 4 Corners						
		e performed eliminate all deficiencies? lo 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)						
	25. Desired roadway width: <i>(new deck / widening)</i> Ft. Desired sidewalk clear width: Left: Ft. Right: Ft.						
$\boxtimes$	26. Maximum increase in grade line elevation 0.5 In.						
$\boxtimes$	27. Benchmark description to be shown						
$\boxtimes$	28. Desired final cross slopes on bridge <u>0.015</u> Ft./Ft.						
	<ul> <li>29. Underwater Inspection Report including:</li> <li>Streambed Cross Section With Pier, Footing and Seal Elevations</li> <li>Pier Elevation Drawings</li> <li>Pier Layout</li> <li>Hydrographic Survey</li> </ul>						
	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.

Construction History: 1972: New Structure 1992: Concrete Overlay

#### Anticipated Rehabilitation Work:

The proposed work includes removing existing concrete overlay, placing a new concrete overlay, concrete surface repair at abutments and parapets, replacing wingwalls at all wings, epoxy coating girder ends (end 3 feet), cleaning parapets, and repairing Span 1, Girder 1 prestressed girder.

#### **Construction Staging:**

A single southbound lane will be maintained across the bridge during construction. At a minimum, a 12-foot lane and two 2-foot shoulders (16 feet clear width) is anticipated to be provided at all times. The maintained 16-foot clear width will allow for USH 53 to remain an OSOW Wind Tower Route.

Geotechnical Coordination:

No Geotechnical Services will be required for this rehabilitation project.

Approach Slabs:

ADT is estimated at 6,374 for 2023. Per FDM 14-10-15, Structural/Concrete approach slabs are required for roads with traffic volumes greater than 3,500 ADT, however this is a rehabilitation project and WisDOT Bridge Manual policy states that structural approach slabs shall not be used on rehabilitation projects, unless approved otherwise. After discussions with the Region, concrete approach slabs will be utilized.

**Existing Structure Information:** 

See select existing structure plans and most recent Inspection Report in the "B-03-0024\_oth" file.

Asbestos Report:

An asbestos report has been completed and Asbestos Containing Material (ACM) was not detected on the structure. See the "B-03-0024\_oth" file for a copy of the report.

Bridge Deck Repair Quantities:

Bridge deck repair quantities (Preparation Decks Type 1, Preparation Decks Type 2, and Full Depth Deck Repair) were provided by the Region.