REHABILITATION STRUCTURE SURVEY REPORT

Wisconsin Department of Transportation

D11090 0/2012		_		RECEI	VED
		Culvert		8/30/2	
☐ Railroad ☐ Retaining	g Wall 🔲 Noise Barrie	r		BUREAU OF S	TRUCTURES
☐ Sign Structure ☐ Other	her:				
For guidance see: http://dotnet/dti	id bos/extranet/structures/rep	orts-checklists.htm			
Design Project ID 1090-35-00	Construction Project ID 1090-35-70	Highway (Project Na IH 43 NB OVER	MARTIN RD		
Final Plan Due Date DECEMBER 1, 2019	Preliminary Plan Due Date SEPTEMBER 1, 2019 Letting Date	☐ Town ☐ Villag	e 🛚 City		
PS&E Date FEBRUARY 1, 2020	County WAUKESHA				
FEBRUARY 1, 2020 MAY 12, 2020 Structure Number B-67-112		Section 33	Town 06N	Rang 20E	
Station 669+37.47 IH 43 SB	Latitude: 425615.13 Longitude: 880847.97	⊠ YES □ NO	Structure Located of	on National Highway	/ System
For Survey and CADD Files	<u> </u>		Traffic For	ecast Data	
Horizontal Coordinate System: Vertical Datum:		Design Year	Average Daily Traffic (ADT)	Roadway Design Speed	Functional Class
Feature On IH 43 NB		Feature On 2032	58400	70 mph	INTERSTATE- URBAN
Feature Under MARTIN RD	Feature Under 2032	2500	35 mph	COLLECTOR- URBAN	
Region Contact: LANCE PARVE	Consultant Contact: HEATHER ANDERS				
(Area Code) Telephone Number(s): (4 Email: LANCE.PARVE@DOT.V	•	(Area Code) Telepho Email: HANDERS	one Number(s): (414) 4 6@hntb.com	410-6899	
	Work	To Be Performed	1		
	Work	To Be Performed	I		ation Required
☐ A. Structural F	Work Repair			Item Number (ation Required see Pages 2–4)
				<u>Item Number (</u> 1–3, 22	see Pages 2–4)
⊠ B. Overlay	Repair			<u>Item Number (</u> 1–3, 22	see Pages 2–4)
⊠ B. Overlay ☐ Concre	Repair		у	<u>Item Number (</u> 1–3, 22	see Pages 2–4)
⊠ B. Overlay ☐ Concre	Repairete Overlay er Modified Asphalt Overlay	☐ Asphalt Overla	у	<u>Item Number (</u> 1–3, 22	see Pages 2–4)
⊠ B. Overlay ☐ Concre ☐ Polyme ☐ Other:	Repairete Overlay er Modified Asphalt Overlay	☐ Asphalt Overla	y Jolymer Overlay	<u>Item Number (</u> . 1–3, 22 1–3, 10–22, 26–2	see Pages 2–4)
☑ B. Overlay☐ Concre☐ Polyme☐ Other:☐ C. New Bearin	Repair ete Overlay er Modified Asphalt Overlay	☐ Asphalt Overla ⊠ Thin Bonded P	y olymer Overlay	<u>Item Number (</u> . 1–3, 22 1–3, 10–22, 26–2 3, 8, 9, 22	see Pages 2–4)
☑ B. Overlay☐ Concre☐ Polyme☐ Other:☐ C. New Bearin☐ D. New Railing	Repairete Overlay er Modified Asphalt Overlay	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	Item Number (-1-3, 22 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23	see Pages 2–4)
 ☑ B. Overlay ☐ Concre ☐ Polyme ☐ Other: ☐ C. New Bearin ☐ D. New Railin ☐ E. Curb and S 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	Item Number (1–3, 22 1–3, 10–22, 26–2 3, 8, 9, 22 15–17, 20–23 2, 3, 16, 22, 23	see Pages 2–4)
 ☑ B. Overlay ☐ Concre ☐ Polyme ☐ Other: ☐ C. New Bearin ☐ D. New Railin ☐ E. Curb and S ☐ F. Abutment F 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	1tem Number (-1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16	see Pages 2–4)
 □ B. Overlay □ Concre □ Polyme □ Other: □ C. New Bearin □ D. New Railing □ E. Curb and S □ F. Abutment F □ G. Pier Repair 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	1-3, 22 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16	<u>see Pages 2–4)</u> 28, 32, 34
 □ B. Overlay □ Concre □ Polyme □ Other: □ D. New Railing □ E. Curb and S □ F. Abutment F □ G. Pier Repain □ H. New Deck. 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	1tem Number (1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16 1-6, 9, 10, 13-28	<u>see Pages 2–4)</u> 28, 32, 34
 □ B. Overlay □ Concre □ Polyme □ Other: □ D. New Railing □ E. Curb and S □ F. Abutment F □ G. Pier Repair □ H. New Deck. □ I. Widening 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y lolymer Overlay	Item Number (1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16 1-6, 9, 10, 13-28 1-28, 30, 32-35	see Pages 2-4) 28, 32, 34
 □ B. Overlay □ Concre □ Polyme □ Other: □ D. New Railing □ E. Curb and S □ F. Abutment F □ G. Pier Repain □ H. New Deck □ I. Widening □ J. Joint Repain 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	1tem Number (1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16 1-6, 9, 10, 13-28 1-28, 30, 32-35 2, 3, 8, 16, 19, 22	see Pages 2-4) 28, 32, 34
 □ B. Overlay □ Concre □ Polyme □ Other: □ D. New Railing □ E. Curb and S □ F. Abutment F □ G. Pier Repair □ H. New Deck. □ I. Widening □ J. Joint Repair □ K. Surface Re 	Repairete Overlay er Modified Asphalt Overlay ngs	☐ Asphalt Overla ☑ Thin Bonded P	y Polymer Overlay	Item Number (1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16 1-6, 9, 10, 13-28 1-28, 30, 32-35 2, 3, 8, 16, 19, 22 2, 3, 22	see Pages 2-4) 28, 32, 34 3, 32-34
☑ B. Overlay ☐ Concre ☐ Polyme ☐ Other: ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment F ☐ G. Pier Repain ☐ H. New Deck. ☐ I. Widening ☐ J. Joint Repain ☐ K. Surface Re ☐ L. Raising Bri	Repair	☐ Asphalt Overla ☑ Thin Bonded P	y olymer Overlay	1tem Number (1-3, 22) 1-3, 10-22, 26-2 3, 8, 9, 22 15-17, 20-23 2, 3, 16, 22, 23 2, 3, 12, 16 2, 3, 12, 16 1-6, 9, 10, 13-28 1-28, 30, 32-35 2, 3, 8, 16, 19, 22 2, 3, 22 3, 6, 9, 16, 20-24	see Pages 2-4) 28, 32, 34 3, 32-34

☐ P. 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.

\boxtimes	1.	1. Most recent inspection report, brief history of bridge construction date, and description of repairs with date	es.
\boxtimes	2.	2. Outline deficient areas on existing structure plan or drawing.	
\boxtimes	3.	3. Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photographs deficient areas. Clearly label all photographs.	aph all
	4.	4. Provide proposed typical section for roadway and structure showing dimensions and cross slopes.	
	5.	5. Survey beam seat or girder elevations at both sides of bridge at all substructure units.	
	6.	6. Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and line. Take elevations along joints and at floor drains.	
	7.	7. Show and identify starting stationing on bridge.	
	8.	 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. 	er.
	9.	9. Fixed and expansion bearings - condition and orientation.	
⊠1	0.	10. Number and width of proposed pours including construction staging sequence.	
⊠1	1.	11. Location of existing construction joints in the deck.	
⊠1	2.	12. Estimated Quantities: Preparation, Decks, Type 1 Preparation, Decks, Type 2 Full Depth Deck Repair Sq. Yd. TBD Sq. Yd. TBD Sq. Yd. TBD Galvanic Anodes? NA	

☑ 13. Sufficiency number: 92.9 (obtain from HSI Bridge Inventory System)

Concrete Surface Repair Superstructure

Concrete Surface Repair Substructure

Curb Repair

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
Current	7	7	7	5	6

Galvanic Anodes? NA

Galvanic Anodes? NA

Galvanic Anodes? NA

Sq. Ft. NA

Sq. Ft. NA

LF. NA

	Inventory	Operational
Current	HS17	HS33
Calculated Date: 8/22/2017		11333
After		
Completed by Bridge Designer		

☐ Yes ⊠ N				Opening at		
	Туре	Owner and Contact Information	Size	Abutment	Weight	Pressure
	_	dge railing deficient? No If Yes – Replacement Rail Type:				1
	18. Drains to be: ☐ Raised	☐ Closed ☐ Downspouted ☐ Ne	ew			
		ined on bridge during work? lo If Yes – Include sketches				
	20. Will guard rail ☐ Yes ☐ N	be attached? lo If Yes – Which 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: None				
	□ Yes □ N	No If Yes – Explain on Page 4 , color system, containment, bid items)				
		vay width: <i>(new deck / widening)</i> Ft. Ft. valk clear width: Left: Ft. Right:	_Ft.			
\boxtimes	26. Maximum incr	rease in grade line elevation 1/4 ln.				
\boxtimes	27. Benchmark de	escription to be shown				
\boxtimes	28. Desired final of	cross slopes on bridge <u>0.02</u> Ft./Ft.				
			ons			
	30. Slope stabiliza Type: Slope:	ation, provide: Quantity: CY. _ Ft./Ft. Fill: CY.				
	-	CY.				
\boxtimes	32. Report submit	tted with Preliminary Plan requires no CADD file su	ubmittal (See I	ESubmittal instru	uctions).	

	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.
\boxtimes	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: Thin Polymer Overlay Deck Prep Types 1 and 2 Full-depth deck patching

- 10. Staging for deck work will be determined in final design. If staging requires, deck repair areas to be filled with "Rapid Set Deck Repair". To be determined in final design.
- 11. See preliminary plans for location of existing longitudinal construction join in the deck.
- 13. 14. 15. Data for these items taken from HSI system on 8/28/2019.
- 16. Exact utility locations still being determined, but no utility conflicts anticipated. To be verified during final design.
- 17. Existing bridge railing is Type HF.
- 18. No existing drains on bridge.
- 19. To be determined in final design.