# B-14-0110\_oth

## List of Attachments

Attachment 1 – WDNR Initial Review Letter (7/24/2019)

Attachment 2 – B-14-110 Bridge Asbestos Inspection Report

Attachment 3 – B-14-110 Inspection Report (8/14/2018)

Attachment 4 – Field Information Joint Measurements

Attachment 5 – B-14-110 Deficiency Sketches



Attachment 1 WDNR Initial Review Letter (7/24/2019)



Tony Evers, Governor Preston D. Cole, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



July 24, 2019

James Buschkopf WisDOT Southwest Region 111 Interstate Blvd. Edgerton, WI 53534

Subject:	DNR Initial Project Review
-	Project I.D. 1170-00-30/60
	IH 41
	STH 28 B-14-0110 & Soo Road B-14-0116
	(Allenton – Fond Du Lac)
	Dodge County

Dear Mr. Buschkopf:

The Wisconsin Department of Natural Resources (DNR) has received the information you provided for the above-referenced project. According to your proposal, the purpose of this project is to rehabilitate two bridges over Interstate Highway 41 in northeastern Dodge County. The project will include polymer overlay, concrete surface repair, replacement of expansion joints and beam guard replacement. Minor grading and shoulder widening will be required for the beam guard updates.

Preliminary information has been reviewed by DNR staff for the project under the DNR/DOT (Wisconsin Department of Transportation) Cooperative Agreement. Initial comments on the project as proposed are included below, and we assume that additional information will be provided that addresses all resource concerns identified. To ensure compliance with resource protections, we are recommending that Special Provisions be developed for specific resource protections described below. DNR expects that the full range of DOT roadway standards will be applied throughout the design and construction process.

## A. Project-Specific Resource Concerns

## **Public Lands:**

Public lands are present in the vicinity of this project. The Theresa Marsh wildlife Area is located adjacent to these bridges. This 5,860-acre property is managed for wildlife production, as a migration stopover area for waterfowl and other birds and for a variety of recreational opportunities including hunting, trapping, fishing, bird watching, hiking and snowmobiling. The property is dominated by wetlands, including emergent marsh, floodplain forest and open water habitat. There is a public access driveway in the SW quadrant of the Soo Road bridge and a public parking lot and access in the northwest quadrant of the STH 28 bridge. Based on the scope of the project, it appears that the project will not require right-of-way taking or easement from the wildlife area. Public access to these facilities



should remain open and available to the public during construction. If there is potential for impacts to these lands, including disruption to users, please begin coordination with us as soon as possible. *First and foremost, every effort should be taken to avoid impacts to these lands*.

## Wetlands:

There are wetlands located adjacent to the structures. Wetlands are located at the toe-of-slope of the B-14-0110 structure in all quadrants and in the northwestern and southwestern quadrants of the B-14-0116 structure. The wetlands appear to be outside of likely beam guard disturbance area and should not be impacted by this project. We request information regarding wetland impacts if it is determined that there will be grading outside of the existing road shoulders or within wetland areas.

## Fisheries/Stream Work:

The project does not include work in any waterways or water bodies.

## Endangered Resources:

Based upon a review of the Natural Heritage Inventory (NHI) dated July 22, 2019, there are no known Endangered Resources or suitable habitat that could be impacted by this project. With this review the following has also been determined:

- There are no known Northern Long-eared Bat (NLEB) maternity roost trees within 150 feet of the project, or known hibernacula within 0.25 miles of the proposed project area.
- This project is located outside of any High Potential Zones (HPZ) for the Rusty Patched Bumblebee (RPBB), and therefore should have no impact on this federally endangered species.

## Floodplains:

A determination must be made as to whether the project lies within a mapped/zoned floodplain. Any proposed temporary or permanent changes to the road or waterway geometry in mapped floodplain areas requires that DOT coordinate with the Dodge County Zoning Administrator to ensure compliance with the local zoning ordinance and NR116. Examples of floodplain development activity includes, but not limited to, the following: changes to waterway crossings; culvert extensions; changes to road surface elevations and/or side-slopes; temporary causeways; temporary structures; general fill.

• A preliminary review of the Surface Water Data Viewer (SWDV) indicates that floodplain conditions exist within or near the project limits.

## Storm Water Management & Erosion Control:

- For projects disturbing an acre or more of land, erosion control and storm water measures must adhere to the Wisconsin Pollutant Discharge Elimination System Transportation Construction General Permit (TCGP) for Storm Water Discharges. Coverage under TCGP is required prior to construction. DOT should apply for permit coverage just before the project goes to final PS&E. Permit coverage will be issued by the DNR after design is complete and documentation shows that the project will meet construction and post-construction performance standards. For more information regarding the TCGP you can go to the following link, and click on the "Transportation" tab: <u>https://dnr.wi.gov/topic/Sectors/Transportation.html</u>.
- All projects require an Erosion Control Plan (ECP) that describes best management practices that will be implemented before, during and after construction to minimize pollution from storm water discharges. Additionally, the plan should address how post-construction storm water performance standards will be met for the specific site. The project design and Erosion Control

Implementation Plan (ECIP) must comply with the TCGP in order to receive "permit-coverage" from the DNR.

• Once the project contract has been awarded, the contractor will be required to outline their construction methods in the ECIP. An adequate ECIP for the project must be developed by the contractor and submitted to this office for review at least 14 days prior to the preconstruction conference. For projects regulated under the TCGP, submit the ECIP as an amendment to the ECP.

## Selected Site & Commercial Non-Metallic Mines:

- The DOT Select Site process must be adhered to for clean fill or any other material that leaves the work site. The DNR liaison will review all proposed select sites and a site visit may be required. Filling of wetlands, waterways or floodplain is not allowed under the select site process, unless the site owner obtains required permits. No new impermeable surfaces can be left at a select site (including gravel roads or pads), unless the site owner obtains required permits. Contaminated materials leaving the site need to adhere to the Hazardous Material Management Plan.
- Use of Commercial Non-Metallic Mines must accompany documentation that such mines have received all applicable local, state and federal permits before being used on the project, including local non-metallic mining reclamation permits and applicable WPDES permits as issued by the DNR.

The above comments represent the DNR's initial concerns for the proposed project and do not constitute final concurrence. Final concurrence will be granted after further review of refined project plans, and additional consultation if necessary. If any of the concerns or information provided in this letter requires further clarification, please contact this office at (608) 228-7927, or email at eric.heggelund@wisconsin.gov.

Sincerely,

Eric Heggelund

Eric Heggelund Environmental Analysis & Review Specialist

cc: Jennifer Grimes, WisDOT REC Brad Groh, JT Engineering, Inc. Eric Kilburg, WDNR Attachment 2 B-14-110 Bridge Asbestos Inspection Report





# **Bridge Asbestos Inspection Report**

WisDOT Project ID: 1107-00-30 Structure Number: B-14-0110 Structure Name: STH 28 over IH 41 City/County: Town of Theresa, Dodge County, Wisconsin GEI project Number: 1903083 Date Inspected: June 12, 2019 Inspected by: Paul Garvey Asbestos Inspector License Number: All-117079 Consultant Company: GEI Consultants, Inc.

## Summary:

An asbestos inspection of Structure B-14-0110 was conducted on June 12, 2019 by Paul M. Garvey, Asbestos Inspector License No. All-117079. Asbestos-containing material (ACM) **IS NOT** present on this structure.

The inspection to identify and collect samples of potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedures for bridge inspections found in FDM 21-35-45.

No Asbestos-containing material has been found in Structure B-14-0110. Standard Special Provision (STSP) 107-127 shall be included in the plans. The contractor will be responsible for completion of the Notification of Demolition and/or Renovation (DNR form 4500-113) if required. A copy of the inspection report is available from the region office.

Sample #	Sample Description	Sample Location	Method and Analytical Results	Category I or II non-friable or No ACM	Total Amount of Material on Structure
B-14-110-1A	Brown paint	Steel girder system	PLM, non- detect	No ACM	N/A
B-14-110-1B	Brown paint	Steel girder system	PLM, non- detect	No ACM	N/A
B-14-110-1C	Brown paint	Steel girder system	PLM, non- detect	No ACM	N/A
B-14-110-2A	Black tar	Deck joints and median	PLM, non- detect	No ACM	N/A
B-14-110-2B	Black tar	Deck joints and median	PLM, non- detect	No ACM	N/A
B-14-110-2C	Black tar	Deck joints and median	PLM, non- detect	No ACM	N/A

If you have any questions, please contact us at (920) 455-8200.

GEI CONSULTANTS, INC.

Type Santi

Kyle C. Sandmire Environmental Scientist

Parem Man

Paul M. Garvey Senior Scientist

Attachments: B-14-0110 Report Table B-14-0110 Map B-14-0110 Photo Log B-14-0110 Bulk Asbestos Sample Analysis Summary B-14-0110 Bulk Asbestos Sample Chain of Custody



# PHOTOGRAPHIC LOG

## **Photograph No: 1**

DIRECTION: N

## **DESCRIPTION:**

Looking north at the Structure ID plate.





## **PHOTOGRAPH NO: 3**

DIRECTION: W

## **DESCRIPTION:**

Looking at the north side of the structure.





# PHOTOGRAPH NO: 5

**DIRECTION**: Down

## **DESCRIPTION:**

Looking at the black tar found on the deck joints and median. The black tar is not ACM.





Environmental Hazards Services, L.L.C. 7469 Whitepine Rd Richmond, VA 23237

Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 19-06-02710

Client:	GEI Consultants Inc	Received Date:	06/18/2019
	3159 Voyager Dr.	Analyzed Date:	06/21/2019
	Green Bay, WI 54311	Reported Date:	06/21/2019

Project/Test Address: Paul M. Garvey; B-14-0110; T. Theresa; Dodge Co., WI

<u>Client Number:</u> 200598	L	aborat	ory Results	<u>Fax Number:</u>			
Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials		
19-06-02710-001	B-14-110-1A		Brown Paint; Homogeneous	NAD	100% Non-Fibrous		
19-06-02710-002	B-14-110-1B		Brown Paint; Homogeneous	NAD	100% Non-Fibrous		
19-06-02710-003	B-14-110-1C		Brown Paint; Homogeneous	NAD	100% Non-Fibrous		
19-06-02710-004	B-14-110-2A		Black Adhesive; Homogeneous	NAD	100% Non-Fibrous		
19-06-02710-005	B-14-110-2B		Black Adhesive; Homogeneous	NAD	100% Non-Fibrous		

# Environmental Hazards Services, L.L.C

Client Number: 200598 Project/Test Address: Paul M. Garvey; B-14-0110; T. Theresa; Dodge Co., WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-06-02710-006	B-14-110-2C		Black Adhesive; Homogeneous	NAD	100% Non-Fibrous

QC Sample:38-M22009-1QC Blank:SRM 1866 FiberglassReporting Limit:1% AsbestosMethod:EPA Method 600/R-93/116, EPA Method 600/M4-82-020Analyst:Christian H. Schaible

Reviewed By Authorized Signatory:

Jasha Eaddy

*Tasha Eaddy* QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

\* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND:

NAD = no asbestos detected

Report Number: 19-06-02710

~		Pageoff
<b>EHS</b> Laboratories <sup>™</sup> Environmental Hazards Services, LLC	Asbestos Chain-of-Custody Form SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237 Phone: (800) 347-4010 FAX: (804) 275-4907 ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT: www.leadlab.com	19-06-02710 Due Date: 06/21/2019
Company Name: <u>GEI Consc</u> Address: <u>3159 Voyager D</u> Phone #: <u>920, 883, 1710</u>	<u>erlive</u> <u>City/State/Zip:</u> <u>Green Bay, Wisconsin 54311</u> <u>Email: pgarvey@geiconsultants.com</u> Fax: 920.43	(Friday) Mars AE 55. 8225
Project Name / Testing Address: <u>B-14-0</u> Collected by: <u>Paul M. Garvey</u>	0110, T-TheresaCity/State (Required): <u>Dodg</u> y, AJI-117079P.O. #90	2 Co., Wisconsin 3083

# TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 - DAY TAT.

	1 Day 2	Day	3 Day		* Sam	ie Day –	Must C	all Ahea	d	* Weekend – Must Call Ahead
No.	Client Sample ID	HA Area #	<b>Collection</b> Date T	ime	PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bulk	* Positive stop Comments on all "A"Haru"C" Series
1	B-14-110-1A than IC		6-12-19 130	O AM / PM	X					(test paint only)
2	B-14-110-2A thru 2C		6-12-19 130	0 AM / PM	X					, ,
3				AM / PM		ļ				
4				AM / PM						
5				AM / PM						
6				AM / PM						
7			·	AM / PM		<u> </u>				
8				AM / PM						
9				AM / PM						
10				AM / PM		es				
Relea	sed by: Paul M. Garvery		Sig	nature:	Æ	X/e	m			Date/Time: 6/14/19 1400 Date/Time: 6/14/19 1400

Attachment 3 B-14-110 Inspection Report (8/14/2018)





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

# Inspection Report for B-14-110

STH 28 over IH 41 Aug 14,2018



	Туре				Prior	Frequency (mos)	Performed
	Routine				08-31-16	24	X
	SIA Review				08-31-16	48	
	Start Coordinates			1	End Coordinates (op	otional)	
Latitude	43°32'12.45"N			Latitude			
Longitude	88°24'12.00"W			Longitude			
0							
Owner	STATE HIGHWA	AY DEPT		Maintainer	STATE HIGHW	AY DEPT	
	Time Log		Team memb	ers			
	Hours 2	Minutes 0					
	Name	-	Number	Signature			Signature Date
Inspector				Jerry Lammen	Ļ		

E-signed by Terry Lammert(dottyl)

09-17-18

1018

Lammert, Terry

#### page 2

#### **Identification & Location** Feature On: Section Town Range: Structure Number: **STH 28** S01 T12N R17E **B-14-110** Feature Under: County IH 41 DODGE Location Municipality Structure Name: 2.2M E JCT STH 175 THEREŚA Geometry Traffic measurements in feet, except where noted Lanes ADT ADT year Traffic Pattern Approach Roadway Width: Bridge Roadway Width: Total Length: On 2740 TWO WAY TRAFFIC 48 52.0 311.1 2 2012 Approach Pavement Width: 28 Deck Width: Deck Area (sq ft): 71.0 22088 Under 6 28100 2008 TWO WAY TRAFFIC Capacity Load Rating Overburden depth (in): Last rating date: Inventory rating: Controlling HS26 0.0 02-15-94 INTERIOR DECK GIRDER Moment Operating rating: Deck surface material: Re-rate for capacity (Y/N): Control location: 8.2 SPAN 2, 135.0 **HS44** CONCRETE Posting: Re-rate notes: **Hydraulic** Classification Scour Critical Code(113): Q100 (ft3/sec): (N) NO WATERWÁY 0 High water elevation (ft): Velocity (ft/sec): Sufficiency #: 0.0 99.0 0.0 Span(s) Span # Material Configuration Depth (in) Length (ft) Main CONT STEEL DECK GIRDER 140.0 1 CONT STEEL DECK GIRDER 2 165.0 Expansion joint(s) Temperature: File:71 New: Clearance File Measurement (ft) Item File Date New Measurement (ft) Highway Min Vertical Under Cardinal 16.87 05-Mar-2017 Highway Min Vertical Under Non-Cardinal 16.01 05-Mar-2017 Horizontal Under Cardinal 83.5 Horizontal Under Non-Cardinal 83.5 Highway Min Vertical On Cardinal Horizontal On Cardinal Construction History Work Performed Year FOS id 1994 **NEW STRUCTURE** 1107-02-71 **Maintenance Items** Status change Priority Recommended by Status Item Tripoli, Bonnie (1012) 08/21/14 Approach - Seal Approach to Paving Block HIGH **IDENTIFIED** Touch up hot rubber at deck ends. Again 2018 Drainage - Repair Washouts / Erosion MEDIUM Tripoli, Bonnie (1012) IDENTIFIED 08/21/14 Fill gap between NW curb and wing wall - fill back in the washout. Again 2018 . Also, repair erosion along NE wing and add asphalt flume. **Deck - Seal Surface Cracks** IDENTIFIED MEDIUM Tripoli, Bonnie (1012) 08/21/14 Reseal deck cracks. Again 2018 MEDIUM 09/17/18 **Expansion Joints - Clean** Lammert, Terry (1018) IDENTIFIED **IMP-Paint Structure** LOW Tripoli, Bonnie (1012) IDENTIFIED 08/21/14

Program BPP 3 years.

#### page 3

Structure No.: B-14-110

#### Elements Quantity in Condition State Element Defect Description Chk UOM Total 4 0 Reinforced Concrete Deck-Coated Reinforcing SF 18,204 15,738 2.466 0 Х 12 Survey type cap in deck for weather/deck monitoring. Delamination - Spall - Patched Area SF 0 0 0 0 1080 SF 2,466 0 Cracking (RC) 0 0 1130 Transverse leaching cracks. Diagonal cracks at the corners. 0 Wearing Surface (Bare) SF 16,636 14,503 2,132 8000 Abrasion, Wear, or Rutting (Wear. Surf.) SF 0 10 0 0 8911 Plow damage at SB lane east end. Debonding/Spall/Patched Area/Pothole SF 0 0 0 1 Spall at strip seal with exposed tie 2018(?) unable to find, Repaired? Several small spalls @ ends near 3210 ioints and end blocks. Crack (Wearing Surface) SF 0 2,122 0 0 3220 Most cracks are sealed some opening up and there are some new. Steel Open Girder 1,984 240 0 LF 2,240 16 Х 107 Corrosion LF 0 240 16 0 1000 Rust developing on bottom flanges throughout. pack rust at ends by stiffeners. SF 480 16 0 Painted Steel 26,939 26,443 8516 Rust developing on bottom flanges and diaphragms throughout. Pack rust at ends by stiffeners. Effectiveness (Steel Protective Coatings) SF 480 16 0 0 3440 Rust developing on bottom flanges throughout. pack rust at ends by stiffeners. Reinforced Concrete Column 5 0 0 ΕA 6 1 Х 205 pop outs Delamination - Spall - Patched Area ΕA 0 0 0 1080 Impact spall and delam. Delam at top Col 6 and has impact damage near bottom. Cracking (RC) ΕA 0 0 0 0 1130 Reinforced Concrete Abutment IF 183 143 34 6 0 Vertical cracks with moderate leaching in E. backwall. Vertical cracks with no leaching in west backwall. Х 215 Spall in east abutment north end. Back wall all rust stains. SW corner has high rusty steel. NW has electrical box. Delamination - Spall - Patched Area LF 0 0 4 0 One small spall east abutment N end. E abut couple spalls no exp. steel, (1) has rust staining. SE corner 1080 large spall @ abut/backwall/wing area. Cracking, rust staining w/ heavy effl. Cracking (RC) LF 0 34 2 0 Couple light vertical cracks in both abut bodies. N abut vertical cracks w/ no leaching in back wall. S 0 1130 abut vertical cracks w/ moderate to heavy leaching in the back wall also long. cracking near top of abut body.

page	e 4							Structure No.:	B-14-110
v	224		Reinforced Concrete Cap	LF	91	90	1	0	0
^	234								
			Delamination - Spall - Patched Area	LF		0	1	0	0
		1080	Small spall at S end.	•			•		
			Cracking (RC)	LF		1	0	0	0
		1130	one HL vertical crack.				•		
			Compression Joint Seal	LF	150	0	149	1	0
Х	302		Both leak full-width.						
			Leakage, Seal Adhesion, Damage, Cracking	LF		0	149	0	0
		2310	Both leak full-width.	1			1		
			Adjacent Deck or Header Damage	LF		0	0	1	0
		2360	Spall at strip seal with exposed tie. Unable to fir	nd in 201	8, repaire	d? under	hot rubbe	r?	
			Moveable Bearing	EA	16	8	0	8	0
Х	311		Bolts starting to bend NW abutment. Some heav	y rust for	ming.				
			Corrosion	EA		0	0	8	0
		1000	Some heavy rust forming.	I					
			Connection	EA		0	0	0	0
		1020	Bolts starting to bend NW abutment.				-		
			Fixed Bearing	EA	8	8	0	0	0
Х	313		@ pier				•		
			Corrosion	EA		0	0	0	0
		1000					1		
			Reinforced Concrete Bridge Rail	LF	662	503	159	0	0
Х	331		Some plow scrapes				·		
			Delamination - Spall - Patched Area	LF		0	3	0	0
		1080	Shallow spall N side, near pier. Spall bottom	face, N r	ail S2, Spa	all top of S	S rail near	pier.	
			Cracking (RC)	LF		0	156	0	0
		1130	Light vertical cracks. Most tops have been seale	d.	11		1		
			Integral Wingwall	EA	4	0	3	1	0
Х	8400		Erosion along NE-Flume w/ asphalt repair.						
			Wall Movement	EA		0	2	0	0
		8902	NE tipped 3/4",NW tipped1/2"						
			Wall Deterioration	EA		0	1	1	0
		8903	NE map cracking with leaching and rust/water sta	ains. NV	V vertical cr	acking wit	th leaching	and rust sta	ains, <b>rebar</b>
			SW Minor map cracking, rust stains.			ing wien.	, Luige spo	л, по ехр.	.cour.

#### page 5

#### Assessments

							Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Ends of Structure	EA	6	5	1	0	0
x	9001		2 inlets at East end in median. West end <b>2 surfac</b> corner.	e drain	inlets, c&	g to 2 inle	ts in medi	an. Erosio	n at NE
			Median	EA	1	1	0	0	0
X	9007		Several transverse cracks - most sealed.						
			Utilities	EA	1	1	0	0	0
X	9011		Weather reporting-deck temps. Electrical plac	ed at S	W corner.	Survey ty	pe cap in	deck.	
			Signs - Object Markers	EA	2	2	0	0	0
X	9030		2 (At approach ends only.)						
			Slope Protection- Crushed Aggregate with Bit.	EA	2	1	1	0	0
X	9043		Moderate erosion damage at NE corner. Fading	settling	at top of e	ast. West	1/2 is coate	ed, 1/2 is b	are.
			Steel Diaphragm	EA	107	50	41	16	0
X	9167		Corrosion on several at the abuts. Rust spots three	oughout					
			Approach Roadway - Asphalt	EA	2	0	2	0	0
x	9323		Void under approach at SW corner and a large sp concrete shoulder, asphalt shoulder cracked. East occurred. WB lane cracked - some sealed. EB ha	alling cr end asp s weath	ack and cra bhalt alligat her sensor	ack at inlet oring and s in paveme	. NW - Spa settling whe ent.	alls and cra ere large wa	icking in ashout

#### **NBI Ratings**

	File	New
Deck	7	7
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	Ň	N

#### **Structure Specific Notes**

WISDOT survey marker located in median, S!. 2018 Weather sta @ SW corner, electrical box attached to abut, sensor placed in EB driving lane and also EB roadway approach.

Inspection Specific Notes
Program BPP 1+ years. Touch up hot rubber at deck ends. Fill gap between NW curb and wing wall - fill back in the washout.
Reseal deck cracks. Form flume to protect NW corner.

#### Inspector Site-Specific Safety Considerations

#### **Structure Inspection Procedures**

**Special Requirements** 

Chk

Hours

Cost Comments

# Routine Document Comment/Description



# Routine Document Comment/Description Spall S top of parapet wall



# Routine Document Comment/Description



Routine Document Comment/Description Diag. steel, pack rust failing paint.



Routine Document Comment/Description Mod. leaching light crack E abut mid span



Routine Document Comment/Description Rust staining entire E abut back wall



Routine Document Comment/Description SE corner spall @ abut, cracking w/ mod effl., rust staining, map cracking w light eff.



Routine Document Comment/Description Elevation view



Routine Document Comment/Description

Painted steelfailure @ pack rust are @ flange bottoms and ends



Routine Document Comment/Description Electrical W abut/weather station.



Routine Document Comment/Description Girder end rusting, flaking, pack rust, rusting on bearings, E end appears worse.



# Attachment 4

Field Information Joint Measurements



#### Field Information Required #8 - Structure Measurements

8.) Record measurement, temperature of the structure, and date taken for each of the following;

Date:	10-Apr-19
Site Time:	7A-8A
Air Temp:	34
Weather:	Cloudy

CL WB N. Flow Line

8a.) Joint opening measured normal to joing at centerline of roadway and both curb lines.

At East Abutment; S. Flow Line CL EB EB Median Flow Line WB Median Flow Line

(in)	
1.625	S. FI
2	CL E
2	EB
2	WB
2.125	CLV
2.375	N. F

	(in)
6. Flow Line	2
L EB	2.125
B Median Flow Line	2
VB Median Flow Line	2
L WB	2.125
I. Flow Line	2.25

8b.) Clearance between girder ends at piers.

#### This is not applicable as the girders are continuous over the central pier.

8c.) Distance from the front face of abutment backwall to closest point of girder end measured parallel to girder.

#### At East Abutment;

#### At West Abutment;

At West Abutment;

Girder #	(in)	Girder #	(in)
1	9	1	7.5
2	8.25	2	8
3	9	3	8
4	9	4	7
5	9	5	6.5
6	8.5	6	6.5
7	8.5	7	6.5
8	8.5	8	6.5

8d.) Temperature of structure determined by averaging top and under deck readings

At East At	outment;	At West A	butment;
Тор	31	Тор	34
Bottom	33	Bottom	32
Average	32	Average	33

# Attachment 5 B-14-110 Deficiency Sketches







TOTAL	ESTIMATEI	) QUAN	TITIES

BID ITEMS	UNIT	W. ABUT.	PIER 1	E. ABUT.	SUPER	TOTAL
R STRUCTURES, BRIDGES B-14-110	L.S.					1
NRY, BRIDGES	C.Y.	222	160	223	742	1,347
RFACE TREATMENT	GAL.				75	75
ICE, STRUCTURE B-14-110	L.S.				1	1
BAR STEEL REINFORCEMENT, BRIDGES	L.B.	11,020	2,580	11,010		24,610
TRENGTH BAR STEEL REINF, BRIDGES	L.B.	9,490	29,610	9,420	157,780	208,300
STRUCTURAL STEEL	L.8.				707,266	707,266
RBON STEEL	L.B.				62,424	62.424
SHEAR CONNECTORS, 78" x 4-INCH	EACH				3,384	3,384
ASSEMBLIES, STRUCTURE B-14-110	EACH		8			8
RING ASSEMBLIES, STRUCT. B-14-110	EACH	8		8		18
ELIVERED AND DRIVEN,						
POUND	L.F.	1,650	1,920	1,950		5,520
SYSTEM, STRUCTURE B-14-110	L.S.				1	1
CAST CONCRETE BARRIER, DELIVERED	L.F.				305	305 *
CAST CONCRETE BARRIER, INSTALLED	L.F.				305	305
RUSHED AGGREGATE	S.Y.	148		194		342
LYS FOR STEEL PLATE BEAM GUARD	EACH				4	4
1, 6-INCH	L.F.	110		110		220
RIC, TYPE DF	S.Y.	55		55		110
ON-BID ITEMS						
ORIDE WATERSTOP	L.F.	95		95		190

STA		S.Ø.			N.Đ.		
317	12' LT.	R	12' RT.	12'LT.	8	12' RT.	
1176+00	966.14	966.27	966.12	966.33	966.51	955.29	
1177+00	966.12	966.22	966.09	966.33	966.49	966.29	
1178+00	966.05	966.18	966.04	966.31	966.50	966.28	
1179+00	966.03	966.18	966.02	966.24	966.47	966.24	
1180+00	966.02	966.17	965.01	966.33	966.50	966.27	



