ATTACHMENTS

ATTACHMENT A – ROUTINE INSPECTION REPORT

ATTACHMENT B - EXISTING BRIDGE PLAN OF DEFICIENT AREAS

ATTACHMENT C - PHOTOS OF DEFICIENT AREAS

ATTACHMENT D – DNR INITIAL CONCURRENCE

ATTACHMENT E - PROJECT CORRESPONDENCE & COORDINATION

ATTACHMENT A ROUTINE INSPECTION REPORT



Inspection Report for B-09-177

STH 29 WB over X Apr 22,2019



Type	Prior	Team Leader	Frequency (mos)	Performed
Routine	04-05-17	Balsiger, Lee (6011)	24	X
SIA Review	04-05-17	Balsiger, Lee (6011)	48	

Start Coordinates

Latitude 44°56'13.79"N

Longitude 91°10'29.64"W

Owner STATE HIGHWAY DEPT

Time Log

Team members

Tille Log		reall members
Hours 0	Minutes 50	

Name	Number	Signature	Signature Date
Inspector		Lee Balsiger	
Balsiger, Lee	6011	E-signed by Lee M Balsiger(leebalsiger)	04-25-19

page 2

Identification & Location

Feature On: STH 29 WB	Section Town Range: S01 T28N R07W	Structure Number:
Feature Under:	County: CHIPPEWA	B-09-177
Location 1.6M W JCT STH 27 TO N	Municipality: SIGEL	Structure Name:

Geometry Traffic

measurements in feet, except where noted			_	Lanes	ADT	ADT year	Traffic Pattern
Approach Roadway Width: 40	Bridge Roadway Width: 40.0	Total Length: 170.1	On	2	7500	2014	ONE WAY TRAFFIC
Approach Pavement Width: 24	Deck Width: 43.0	Deck Area (sq ft): 7314	Under	2	2300	2011	TWO WAY TRAFFIC

Capacity Load Rating

Inventory rating: HS32	Overburden depth (in): 0.0	Last rating date: 06-16-92	Controlling: INTERIOR DECK GIRDER Moment
Operating rating: HS54	Deck surface material: CONCRETE	Re-rate for capacity (Y/N):	Control location: 0.5 SPAN 2, 34.8
Posting:	Re-rate notes:		

Hydraulic Classification

	Scour Critical Code(113):	Q100 (ft3/sec):	
	(N) NO WATERWAY	0	
ı	High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:
	0.0	0.0	95.8

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main	
1	CONT STEEL	DECK GIRDER		47.0		
2	CONT STEEL	DECK GIRDER		69.5	Y	
3	CONT STEEL	DECK GIRDER		47.0		

Expansion joint(s) Temperature: File: New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	15.84		
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	30.0		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Construction History

Year	Work Performed	FOS id
1993	NEW STRUCTURE	1052-07-76

Maintenance Items History

IMP-Thin Epoxy Overlay	Recommended by		Status change 04/25/19	Year completed
Possible Candidate?				

page 3 Structure No.:B-09-177

Maintenance Items

Item	Priority	Recommended by	Status	Status change	
Drainage - Repair Washouts / Erosion	HIGH	Balsiger, Lee (6011)	IDENTIFIED	04/06/17	
		-			
Mound material in SW corner so runoff is directed down median and does not run down slope. Fix erosion at NE corner. Riprap slope below NW flume.					
Expansion Joints - Repair	HIGH	Balsiger, Lee (6011)	IDENTIFIED	04/06/17	
Repair backwall at SE corner. Hole in backwall at	t joint.		1		

Elements

							Quantity in Co				
Chk	Element	Defect	Description	UOM	Total	1	2	3	4		
Χ	12		Reinforced Concrete Deck-Coated Reinforcing	SF	7,314	5,000	2,314	0	0		
			Cracking (RC)	SF		0	2,314	0	0		
		1130	Spans 1 and 3 few leaching transverse cracks. Span has a couple small areas of rust spains. Span 2 has numerous leaching transverse cracks.								
	8000		Wearing Surface (Bare)	SF	6,884	2,684	4,000	200	0		
			Debonding/Spall/Patched Area/Pothole	SF		0	0 1	200	0		
		3210	9/2015 - IR = 2.4%, GPR = 2.7%		I						
			Crack (Wearing Surface)	SF		0	4,000	0	0		
		3220	Numerous transverse/mapping cracks. Transver center span.	se crac	ks @ 2ft c	enters, es	pecially ov	er piers a	nd in		
			Steel Open Girder	LF	1,013	1,013	0	0	0		
Χ	107		6 Girders, painted September 1993. Strain gauge attachments and wires left on span 1 girders from research project.								
			Painted Steel	SF	8,822	8,222	200	200	200		
	8516		6 Girders, painted September 1993.								
			Effectiveness (Steel Protective Coatings)	SF		0	200	200	200		
		3440	Few areas top coat peeling off. Exterior girders starting to peel, especially bottom	om flan	ge.						
			Reinforced Concrete Column	EA	8	5	3	0	0		
X	205		ОК								
			Abrasion-Wear (PSC-RC)	EA		0	3	0	0		
		1190	Some pitting on columns from salt spray. Pier	1, Colu	ımn 1 is w	orst.					
		1190	Some pitting on columns from salt spray. Pier Reinforced Concrete Abutment	1, Colu	umn 1 is w 114	orst. 98	16	0	0		
X	215	1190		-			16	0	0		
X	215	1190	Reinforced Concrete Abutment	-			16	0	0		
X	215	1190	Reinforced Concrete Abutment Southwest corner has wet felt stains.	LF		98	-				
			Reinforced Concrete Abutment Southwest corner has wet felt stains. Cracking (RC) Few hairline vertical cracks. Reinforced Concrete Cap	LF		98	-				
	215		Reinforced Concrete Abutment Southwest corner has wet felt stains. Cracking (RC) Few hairline vertical cracks.	LF LF	114	98	16	0	0		
×			Reinforced Concrete Abutment Southwest corner has wet felt stains. Cracking (RC) Few hairline vertical cracks. Reinforced Concrete Cap	LF LF	114	98	16	0	0		

page 4 Structure No.:B-09-177

- ug	•							Oli dolaro 140	
			Strip Seal Expansion Joint	LF	127	67	50	4	6
X	300		Above both abutments.						
			Leakage, Seal Adhesion, Damage, Cracking	LF		0	0	0	4
		2310	1ft tear in NE corner. 3ft tear in NW corner.		•	•			
			Adjacent Deck or Header Damage	LF		0	50	4	2
		2360	2ft hole in backwall at SE corner. 4ft of spalls on top of west joint backwall (right)	ane and	fog line)				
			Elastomeric Bearing	EA	18	14	4	0	0
Χ	310		Both abutments and Pier 1.	•			•		
			Corrosion	EA		0	4	0	0
		1000	Some corrosion to steel plates by leaky joints	;					
			Fixed Bearing	EA	6	6	0	0	0
Χ	313		Pier - 2. OK						
			Reinforced Concrete Bridge Rail	LF	380	200	180	0	0
Χ	331								
			Cracking (RC)	LF		0	180	0	0
		1130	Many vertical cracks.	•			•		
			Integral Wingwall	EA	4	4	0	0	0
Χ	8400		OK	'	1		•	,	

Assessments

							Quantity in C	ondition State	
Chk	Element	Defect	Description	UOM	Total	1	2	3	4
			Drainage - Drainage Along Structure (Deck Drains)	EA	4	2	2	0	0
X	9004		Roadway surface concrete flumes at northwest at NW flume. Gravel shoulders at east corners, some erosion			rs. Some	slope eros	sion at bot	tom of
			Slope Protection- Crushed Aggregate with Bit.	EA	2	2	0	0	0
Χ	9043	3	Weedy						
			Steel Diaphragm	EA	35	32	3	0	0
Χ	9167	167	Some corrosion to diaphragms adjacent to lea	ky joint	S.				
			Approach Roadway - Concrete (non-structural)		2	0	2	0	0
Χ	9322		West concrete paving block has a couple AC pate Northeast approach is cracked and settling.	hed spa	lls.				

NBI Ratings

	File	New
Deck	6	6
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

page 5 Structure No.: **B-09-177**

Structure Specific Notes

Inspection Specific Notes

01/2016 Interim - enter Level 1 Report Data (9/21/15) for wear surface - both IR and GPR values considered CS2 delamination unless noted. (2019) Changed to CS3 based on 1080 defect definition.
12/2015 Interim - Wearing surface only.

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Special Requirements

Chk

Hours

Cost

ommonte

page 6 Structure No.:B-09-177

Routine Document Comment/Description Hole in backwall. SE corner



page 7 Structure No.:B-09-177

Routine Document Comment/Description Span 2



page 8 Structure No.:B-09-177

Routine Document Comment/Description West joint



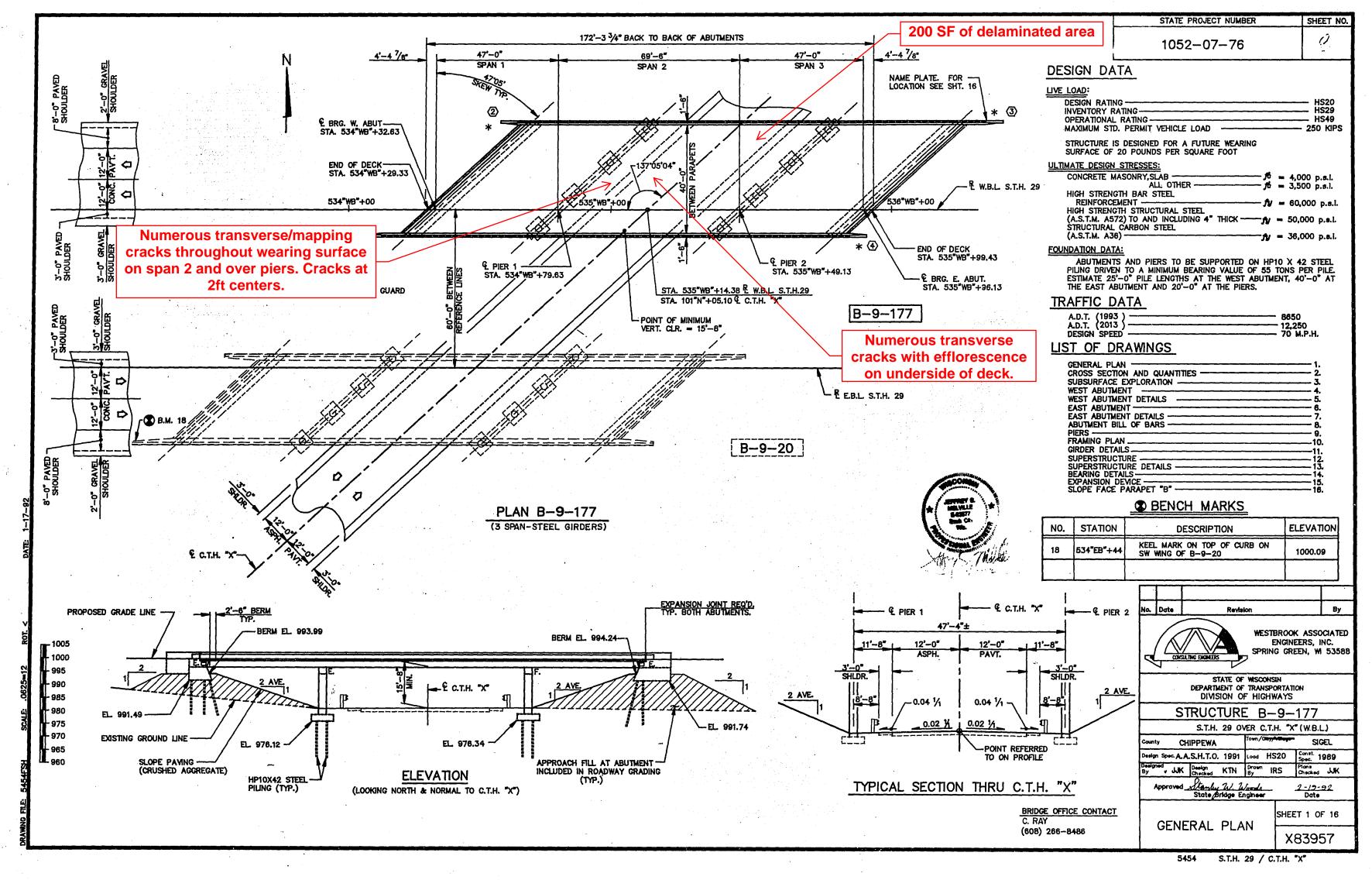
page 9 Structure No.:B-09-177

Routine Document Comment/Description Deck cracking (typical)



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ATTACHMENT B EXISTING BRIDGE PLAN OF DEFICIENT AREAS



ATTACHMENT C PHOTOS OF DEFICIENT AREAS

1050-01-11 Chippewa Falls – Abbotsford Stillson Creek to Cardinal Ave STH 29 Chippewa and Clark Counties Structure Photos

B-09-177





East End of Deck



Top of deck



Underside of deck showing cracks with efflorescence.

ATTACHMENT D DNR INITIAL CONCURRENCE

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 West Clairemont Avenue
Eau Claire, WI 54701

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



June 14, 2019

Sean Spromberg, PE MSA Professional Services, Inc. Via email

Subject: DNR Initial Project Review-REVISED

Project I.D. 1050-01-11/81 (9) Bridge Rehabilitation Projects STH 29

Chippewa and Clark Counties

Dear Mr. Spromberg:

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 for nine bridge rehabilitation projects along STH 29 in Chippewa and Clark Counties. Proposed improvements include polymer deck overlay on all 9 bridges and 2 bridges will also include wingwall replacement along with concrete surface repair.

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

There is potential for wetland impacts to occur as a result of this project. Wetland impacts must be avoided and/or minimized to the greatest extent practicable. Unavoidable wetland losses must be compensated for in accordance with the DNR/DOT Cooperative Agreement and the DOT Wetland Mitigation Banking Technical Guideline. DNR requests information regarding the amount and type of unavoidable wetland impacts.

Endangered Resources:

Based upon a review of the Natural Heritage Inventory (NHI) dated January 7, 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.
- NHI Disclaimer: This review letter may contain NHI data, including specific locations of endangered resources, which are considered sensitive and are not subject to Wisconsin's Open Records Law. As a result, information contained in this review letter may be shared only with individuals or agencies that require this information in order to carry out specific roles in the permitting, planning and implementation of the proposed project. Specific locations of endangered resources may not be released or reproduced in any publicly disseminated documents.

Fisheries/Stream Work:

Rip Rap work for the STH 29 Bridge over Paint Creek (B-09-0175):

Paint Creek is a Coldwater, Cool-Cold Headwater stream. There shall be no in-stream disturbance between March 15th and May 15th, with both dates inclusive of the timeout period. This construction BMP minimizes impacts to fish and other aquatic organisms during sensitive time periods such as spawning, and migration.

Disclaimer: Requests to modify the in-stream timeout dates may be made, if seasonal conditions and/or extra best management practices (BMPs) would allow it. These requests must be submitted to the DNR for review and will be handled on a case-by-case basis.

If erosion control matting is to be used along stream banks, DNR recommends biodegradable nonnetted matting (e.g. Class I Type A Urban, Class I Type B Urban, or Class II Type C). Long-term netted mats may cause animal entrapment. Avoid the use of fine mesh matting that is tied or bonded at the mesh intersection such that the openings in the mesh are fixed in size.

Migratory Birds:

A site review is needed to determine if there is evidence of past migratory bird nesting on any of the existing structures. Under the U.S. Migratory Bird Treaty Act, destruction of swallows and other migratory birds or their nests is unlawful unless a permit has been obtained from the U.S. Fish & Wildlife Service (USFWS). Therefore, the project should either occur only between August 30 and May 1 (non-nesting season) or utilize measures to prevent nesting (e.g., remove unoccupied nests during the non-nesting season and install barrier netting prior to May 1). If netting is used, ensure it is properly maintained, then removed as soon as the nesting period is over. If neither of these options is practicable then the USFWS must be contacted to apply for a depredation permit.

To avoid impacts to nesting birds, removal of trees and shrubs which are likely to support active nests, or ground disturbance and vehicle traffic in grasslands with potential ground-nesting migratory birds should be completed between August 30 and May 1.

Invasive Species and Viral Hemorrhagic Septicemia (VHS):

All project equipment shall be decontaminated for removal of invasive species prior to and after each use on the project site by utilizing other best management practices to avoid the spread of invasive species as outlined in NR 40, Wis. Adm. Code. For more information, refer to http://dnr.wi.gov/topic/Invasives/bmp.html.

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 both the Chippewa and Clark County Zoning Administrators 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 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: https://dnr.wi.gov/topic/Sectors/Transportation.html.
- 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.

Bridge Deck Preparation:

For bridges over waterbodies-

 Old paint, shot blasting dust and debris and overspray must not enter any waterbodies below or near the bridges. Deck drains will have inlet protections placed prior to deck overlay.

Asbestos:

A Notification of Demolition and/or Renovation and Application for Permit Exemption, DNR form 4500-113 (chapters NR 406, 410, and 447 Wis. Adm. Code) may be required. Please refer to DOT FDM 21-35-45 and the DNR's notification requirements web page: http://dnr.wi.gov/topic/Demo/Asbestos.html for further guidance on asbestos inspections and notifications. Contact Mark Davis, Air Management Specialist 262-574-2118, with questions on the form. The notification must be submitted 10 working days in advance of demolition projects.

Other Issues:

This project may require a permit from the U.S. Army Corps of Engineers (USACE). For further permit details, you may contact Dan Munson (Chippewa County) of the USACE located in the St. Paul office, at 651-290-5191 or Sam Worboril (Clark County) of the USACE located in the Stevens Point office, at 651-290-5878. All local, state, and federal permits and/or approvals must be obtained prior to commencing construction activities.

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 715-934-9014, or email at Leah.Nicol@wisconsin.gov.

Sincerely,

Leah Nicol

Environmental Analysis & Review Specialist

cc: Nick Schaff, WisDOT

Tyler Rongstad, WisDOT Dan Munson, USACE Sam Woboril, USACE

eah Nich

ATTACHMENT E PROJECT CORRESPONDENCE & COORDINATION

DOCUMENTATION RELATED TO CHANGE IN PROJECT SCOPE

Kyle Busch

From: Kyle Busch

Sent: Monday, June 24, 2019 5:27 PM

To: Kyle Busch

Subject: FW: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81 Attachments: 20190426 CDR 1050-01-11,81 revised.pdf; ATT00001.htm

From: "Rongstad, Tyler J - DOT" < Tyler.Rongstad@dot.wi.gov >

Date: April 26, 2019 at 9:20:11 AM CDT

To: Sean Spromberg <sspromberg@msa-ps.com>

Subject: FW: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Sean,

Please see attached and below. Project ID 1050-01-11 has been revised. Please review and let me know what we need to do to make this happen.

Thanks,

Tyler

Tyler Rongstad, P.E.

Northwest Region Project Manager Wisconsin Department of Transportation

Phone: (715) 461-0372

From: Smrstick, Timothy J - DOT **Sent:** Friday, April 26, 2019 9:14 AM

To: Rongstad, Tyler J - DOT < <u>Tyler.Rongstad@dot.wi.gov</u>>

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT

<gregory.haig@dot.wi.gov>

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

My notes in blue.

From: Rongstad, Tyler J - DOT Sent: Friday, April 26, 2019 8:35 AM

To: Smrstick, Timothy J - DOT < <u>Timothy.Smrstick@dot.wi.gov</u>>

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT

<gregory.haig@dot.wi.gov>

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Tim,

Can you please confirm or correct a few of the scoping notes:

1. In addition to the polymer overlay, the STH 29 westbound bridge (B-09-0031), over Stillson Creek, requires southwest & northeast wingwall replacements. The southwest abutment requires concrete surface repairs. Replace the nameplate on the northeast parapet. Refer to the attached scoping plan photos notes. Are we still doing this work or only doing a concrete overlay now?

For B-09-0031, replace all wingwalls, concrete surface repair for the southwest abutment and replace nameplate.

2. The Cardinal Avenue STH 29 overpass bridge (B-10-0178) requires northwest, northeast, and southeast wingwall replacements (AND southwest now?). Spot locations on the bridge deck, girder 9, and the north and south abutments require concrete surface repairs. Both approach medians are in need of replacement. The north abutment face needs draintile and sections of the north slope paving require repair. Replace the nameplate on the southeast parapet. Refer to the attached scoping plan photo notes. Should we perform the spot repairs on the bridge deck, girder 9 and the north / south abutments? Approach median replacement? Draintile? Nameplate?

As for B-10-0178, just replace all the wingwalls.

Regarding 1050-01-82 I wanted to confirm that in addition to an asphalt overlay we also had this work scoped:

1. The estimate assumes the existing concrete overlay will remain with some patching, no sheet membrane waterproofing, no repair to the curb on the bridge, no work to the bridge railing, painting girders 2' on either side of the pinned web connection, repair/seal the joint over the westernmost pier, and 50' butt joints on bridge approaches to accommodate the raise in profile. Should we still be painting the girders near the pinned connections and sealing the joint over the westernmost pier?

Yeah, do all that work.

Thanks!

Tyler

Tyler Rongstad, P.E.

Northwest Region Project Manager Wisconsin Department of Transportation Phone: (715) 461-0372

From: Smrstick, Timothy J - DOT **Sent:** Friday, April 26, 2019 7:01 AM

To: Rongstad, Tyler J - DOT < Tyler.Rongstad@dot.wi.gov >

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT

<gregory.haig@dot.wi.gov>

Subject: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Tyler,

As we talked about on the phone, here is the new CDR for you. 8 bridge getting concrete overlays and one bridge getting wing wall replacement.

Thanks,

Tim

Date: 02/26/2018 Region: NW PDS Eau Claire Unit 4

Prepared By: SMRSTICK, TIMOTHY J - DOTTXS

GENERAL

Design ID: 1050 01 11 Related ID(s): 1050-01-81 Highway No. or Local Road Name: STH 029 Route length (miles): 0.192

Title/Limit: CHIPPEWA FALLS - ABBOTSFORD STILLSON CREEK TO CARDINAL AVENUE

Functional class: FREEWAYS AND EXPRESSWAYS

Current ADT: 17664 Connecting hwy: N

COUNTIES

County name	Primary Flag
CLARK	N
CHIPPEWA	Υ

FEATURES

Roadway conditions

Lanes: 2 Divided: N Rural: Y

Pavement width (ft): 24 Pavement condition year: 0 Pavement surface type: JPCP W/D

IRI: 1.13 **PDI: PCI:** 100

Left shoulder surface type: Rumble Right shoulder surface type: PC Shoulder width (ft): 11

strip - Bituminous concrete

Paved width (ft): 8 Crash rate: 62.4028 Crash rate year: 2016

Substandard algn horiz: NULL Substandard algn vert: NULL

Crash rate improvement flag: Y Injury death improvement flag: N Runoff improvement flag: N Intersection improvement flag: N

Structures

Structures flag: Y

ID	Feature under	Feature on	Туре	Yr const	Width (ft)	Length (ft)	SR	RS
B0900200 0000000			BRIDGE					

B0900310 0000000	BRIDGE			
B0900350 0000000	BRIDGE			
B0900380 0000000	BRIDGE			
B0901710 0000000	BRIDGE			
B0901740 0000000	BRIDGE			
B0901750 0000000	BRIDGE			
B0901770 0000000	BRIDGE			
B1001780 0000000	BRIDGE			

Railroad Crossings

Railroad crossing flag: N

PROPOSED IMPROVEMENT

JUSTIFICATION: STH 29 is a NHS, corridors 2030 backbone, OSOW, state and federal long truck route and principal arterial. The existing bridges B-09-20,31,35,38,171,174,175,177 and B-10-178 are showing signs of deterioration.

Proposed improvement description: The proposed improvement consists of bridge rehabilitation on the 9 structures.B-09-20,31,35,38,171,174,175,177 will all get concrete overlays.B-10-178 will have all 4 wing walls replaced.Construct under traffic using single lane closures on STH 29 with time restrictions.

Environment documentation type: 2B - STATE DOCUMENTED CATEGORICAL EXCLUSION

Improvement concept: BRRHB - BRIDGE REHABILITATION

Total construction estimate: \$592,000.00

Utility amount: \$0.00

Railroad amount: \$0.00

Design amount: \$67,000.00

Program year: 2022

Legislative subprogram: 303 -STATE HIGHWAY REHABILITATION

WisDOT Programs

R	Δ(٦ı	/ F	30	N	F
D/	4	J٢	١c	\sim	עוי	

Local participation: NA

Aes/Vis LvI Of Impact Rating:

**Real actato: N

**Real act

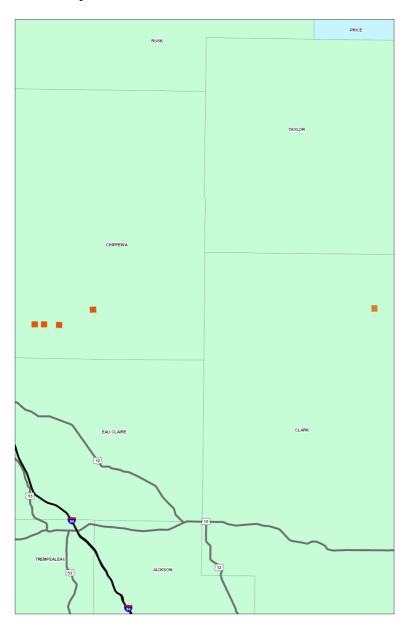
Real estate: N Real estate cost: \$0.00

NHS: Y FHWA Oversight Exempt: Y

Accepted By: ROBERT L HELDT Accepted Date: 04/25/2019

Original Accepted By: DAVID S WINCENTSEN
Original Accepted Date: 05/24/2018

CDR Map



Kyle Busch

From: Sean Spromberg

Sent: Friday, June 21, 2019 8:08 AM

To: Rongstad, Tyler J - DOT; Haig, Gregory - DOT

Cc: Kyle Busch

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81, Joint replacement

Tyler/Greg,

For steel girder bridges on ID 1050-01-11 (B-9-177 & B-9-20) we will have a 0.5" profile grade raise on the deck (see below). In many cases the joints get replaced on these. Without replacing the joint do we want to continue the overlay up to the joint, over the backwall, and then take out ½" raise in a taper in the asphalt? Or replace the joint?

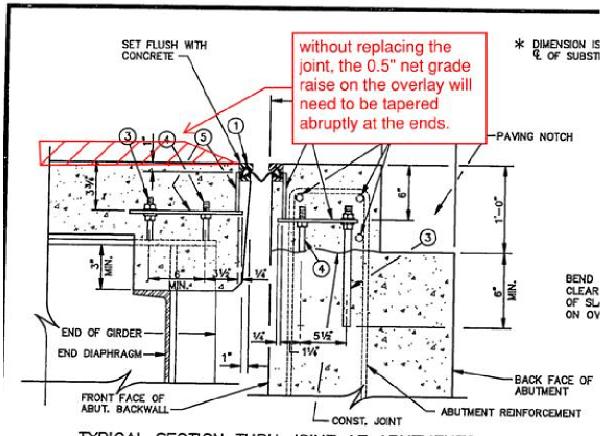
Thanks, Sean



Sean Spromberg, PE | Team Leader

MSA Professional Services, Inc. 100% Employee Owned +1 (715) 304-0451





TYPICAL SECTION THRU JOINT AT ABUTMENTS

(NORMAL TO @ SUBSTRUCTURE)

B-9-20 (B-9-177 similar)

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From: Haig, Gregory - DOT

Sent: Thursday, May 2, 2019 1:49 PM

To: Smrstick, Timothy J - DOT Timothy.Smrstick@dot.wi.gov">Timothy.Smrstick@dot.wi.gov

<Tyler.Rongstad@dot.wi.gov>

Cc: Balsiger, Lee M - DOT < Lee. Balsiger@dot.wi.gov>

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hey Tyler,

Just to be clear, it would be from the top of the abutment footing up. We will not need to remove or replace the footing under the wing.

Thanks,

Gregory Haig, P.E. Bridge Maintenance Engineer Northwest Region, Eau Claire gregory.haig@dot.wi.gov cell. (715) 577-0646

From: Smrstick, Timothy J - DOT Sent: Thursday, May 2, 2019 1:44 PM

To: Rongstad, Tyler J - DOT < Tyler.Rongstad@dot.wi.gov >

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT < gregory.haig@dot.wi.gov >

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

We would like to replace the entire wing wall on all four.

From: Rongstad, Tyler J - DOT

Sent: Thursday, May 02, 2019 12:03 PM

To: Smrstick, Timothy J - DOT <<u>Timothy.Smrstick@dot.wi.gov</u>>
Subject: FW: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Tim,

Do you know if it the entire wings or just the top of the wings need replacement? For both of the two structures?

Thanks,

Tyler

Tyler Rongstad, P.E.

Northwest Region Project Manager Wisconsin Department of Transportation

Phone: (715) 461-0372

From: Sean Spromberg <sspromberg@msa-ps.com>

Sent: Thursday, May 2, 2019 9:13 AM

To: Rongstad, Tyler J - DOT <Tyler.Rongstad@dot.wi.gov>

Cc: Haig, Gregory - DOT <gregory.haig@dot.wi.gov>; Balsiger, Lee M - DOT <Lee.Balsiger@dot.wi.gov>

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Tyler,

One clarification, are we replacing the entire wings or just the wing tops at all 4 quadrants? If full wings we would request an amendment.

Thanks, Sean

From: Rongstad, Tyler J - DOT Sent: Friday, April 26, 2019 8:35 AM

To: Smrstick, Timothy J - DOT < Timothy. Smrstick@dot.wi.gov >

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT < gregory.haig@dot.wi.gov >

Subject: RE: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Tim,

Can you please confirm or correct a few of the scoping notes:

1. In addition to the polymer overlay, the STH 29 westbound bridge (B-09-0031), over Stillson Creek, requires southwest & northeast wingwall replacements. The southwest abutment requires concrete surface repairs. Replace the nameplate on the northeast parapet. Refer to the attached scoping plan photos notes. **Are we still doing this work or only doing a concrete overlay now?**

For B-09-0031, replace all wingwalls, concrete surface repair for the southwest abutment and replace nameplate.

2. The Cardinal Avenue STH 29 overpass bridge (B-10-0178) requires northwest, northeast, and southeast wingwall replacements (AND southwest now?). Spot locations on the bridge deck, girder 9, and the north and south abutments require concrete surface repairs. Both approach medians are in need of replacement. The north abutment face needs draintile and sections of the north slope paving require repair. Replace the nameplate on the southeast parapet. Refer to the attached scoping plan photo notes. Should we perform the spot repairs on the bridge deck, girder 9 and the north / south abutments? Approach median replacement? Draintile? Nameplate?

As for B-10-0178, just replace all the wingwalls.

Regarding 1050-01-82 I wanted to confirm that in addition to an asphalt overlay we also had this work scoped:

1. The estimate assumes the existing concrete overlay will remain with some patching, no sheet membrane waterproofing, no repair to the curb on the bridge, no work to the bridge railing, painting girders 2' on either side of the pinned web connection, repair/seal the joint over the westernmost pier, and 50' butt joints on bridge approaches to accommodate the raise in profile. Should we still be painting the girders near the pinned connections and sealing the joint over the westernmost pier?
Yeah, do all that work.

Thanks!

Tyler

Tyler Rongstad, P.E.

Northwest Region Project Manager Wisconsin Department of Transportation Phone: (715) 461-0372

From: Smrstick, Timothy J - DOT Sent: Friday, April 26, 2019 7:01 AM

To: Rongstad, Tyler J - DOT <Tyler.Rongstad@dot.wi.gov>

Cc: Balsiger, Lee M - DOT < Lee.Balsiger@dot.wi.gov >; Haig, Gregory - DOT < gregory.haig@dot.wi.gov >

Subject: STILLSON CREEK TO CARDINAL AVENUE 1050-01-81

Hi Tyler,

As we talked about on the phone, here is the new CDR for you. 8 bridge getting concrete overlays and one bridge getting wing wall replacement.
Thanks,

Tim