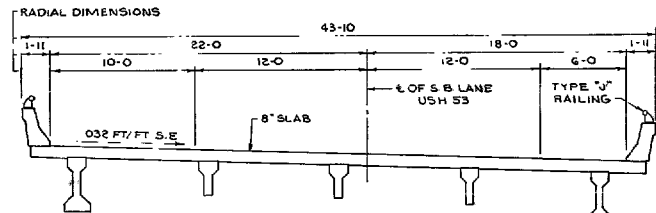


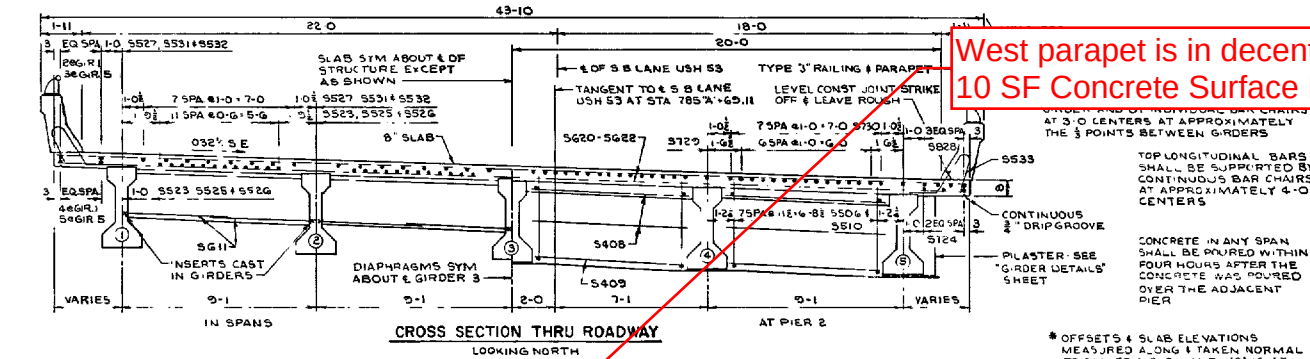
SELECT AS-BUILT DRAWINGS



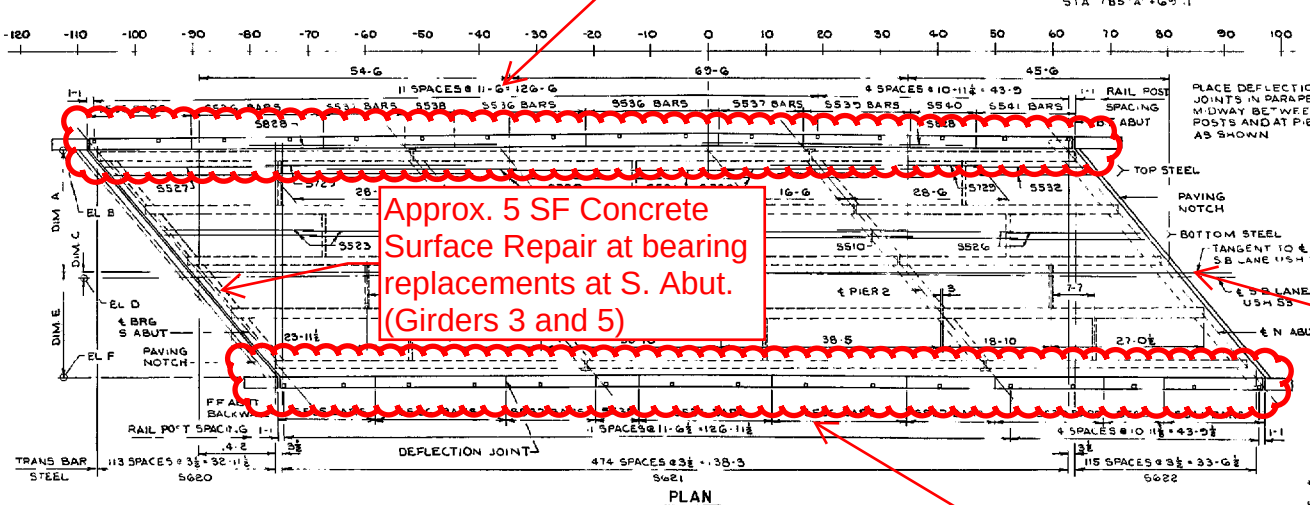
AS BUILT PLAN
DATE 1-'78 BY W.J.K.

BID ITEMS		UNIT	SUBT	PIER 1	PIER 2	N ABUT	SUPER	TOTAL
EXCAVATION FOR STRUCTURES		C Y	49	161	51	46		307
CONCRETE MASONRY		C Y	87	84	52	65	278	576
PRESTRESSED CONCR "1" TYPE 45"		L F						
BAR STEEL REINFORCEMENT		LB	5,510	4,450	9,180	3,240	17,290	47,350
STRUCTURAL CARBON STEEL		LB					3,950	3,950
STRUCTURAL LOW ALLOY STEEL		LB					2,660	2,660
UNDRICATED BRONZE PLATES		LB					235	235
BEARING PADS		S F					21	21
BEARING PADS ELASTOMERIC		S F					24	24
STEEL PILING, DEL. DRIVEN HP10-42		L F	210		360	510		1,440
TUBULAR RAILING, TYPE "3"		L F					381	381
SLOPE PAVING, CRUSHED AGGREGATE		S Y	320			275		604
NON BID ITEMS								
ALUMINUM OR ZINC PLATE		S F					51	51
FILLER		BIZE					44	44
POLYVINYL CHLORIDE WATERSTOP		L F	9			51		60

No.	Date	Revision		Dr.
STATE OF MISSISSIPPI DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS				
STRUCTURE B-3-30				
S BLANE USH 53 OVER TOWN ROAD				
Design:	BARRON		City	County
Design Type:	ASDNO 1989	ASDNO	1989	1989
Design By:	CRD	CRD	RTB	RTB
Approved:	W. A. Kline		12 21 77	12 21 77
Chief Bridge Engineer:			Date:	
GENERAL PLAN			SHEET 1 OF 13	
			X45720	



West parapet is in decent condition, approx. 10 SF Concrete Surface Repair.



Approx. 5 SF Concrete Surface Repair at bearing replacements at S. Abut. (Girders 3 and 5)

Approx. 5 SF Concrete Surface Repair at N. Abut.

East parapet has crack at top about 80% of the length, approx. 140 SF Concrete Surface Repair.

TABLE OF BARS

NO.	SIZE	LENGTH	LOCATION
5404	6	29.3	PIER DIAPHRAGM - STIRRUPS
5405	43	4.6	PIER DIAPHRAGM - STIRRUPS
5406	64	9.10	PIER DIAPHRAGM - STIRRUPS
5407	12	9.0	PIER DIAPHRAGM - STIRRUPS
5408	68	9.8	PIER DIAPHRAGM - STIRRUPS
5409	12	9.0	PIER DIAPHRAGM - STIRRUPS
5410	64	10.10	PIER DIAPHRAGM - STIRRUPS
5411	68	9.5	PIER DIAPHRAGM - STIRRUPS
5412	10	28.7	PIER DIAPHRAGM - STIRRUPS
5413	39	14.3	PIER DIAPHRAGM - STIRRUPS
5414	52	4.6	PIER DIAPHRAGM - STIRRUPS
5415	2	2.4	PIER DIAPHRAGM - STIRRUPS
5416	2	3.9	PIER DIAPHRAGM - STIRRUPS
5417	8	4.3	PIER DIAPHRAGM - STIRRUPS
5418	8	3.4	PIER DIAPHRAGM - STIRRUPS
5419	12	3.4	PIER DIAPHRAGM - STIRRUPS
5420	57	42.4	PIER DIAPHRAGM - STIRRUPS
5421	475	42.4	PIER DIAPHRAGM - STIRRUPS
5422	58	42.2	PIER DIAPHRAGM - STIRRUPS
5423	118	21.7	PIER DIAPHRAGM - STIRRUPS
5424	12	15.0	PIER DIAPHRAGM - STIRRUPS
5425	118	33.6	PIER DIAPHRAGM - STIRRUPS
5426	118	23.2	PIER DIAPHRAGM - STIRRUPS
5427	39	28.6	PIER DIAPHRAGM - STIRRUPS
5428	16	45.0	PIER DIAPHRAGM - STIRRUPS
5429	66	37.0	PIER DIAPHRAGM - STIRRUPS
5430	64	33.6	PIER DIAPHRAGM - STIRRUPS
5431	39	39.0	PIER DIAPHRAGM - STIRRUPS
5432	39	19.0	PIER DIAPHRAGM - STIRRUPS
5433	346	4.0	PIER DIAPHRAGM - STIRRUPS
5434	346	5.1	PIER DIAPHRAGM - STIRRUPS
5435	10	17.0	PIER DIAPHRAGM - STIRRUPS
5436	30	22.8	PIER DIAPHRAGM - STIRRUPS
5437	20	14.0	PIER DIAPHRAGM - STIRRUPS
5438	10	8.3	PIER DIAPHRAGM - STIRRUPS
5439	10	8.3	PIER DIAPHRAGM - STIRRUPS
5440	10	8.3	PIER DIAPHRAGM - STIRRUPS
5441	10	8.3	PIER DIAPHRAGM - STIRRUPS

OFFSETS & SLAB ELEVATIONS																						East part length, a
	-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	
DIM A	21.2	21.3	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	
EL B	120.60	120.46	120.31	120.17	120.02	119.87	119.73	119.58	119.44	119.29	119.14	119.00	118.85	118.71	118.56	118.42	118.27	118.13	117.98	117.84	117.69	
DIM C	0.10	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
EL D	119.50	119.36	119.21	119.07	118.92	118.78	118.63	118.49	118.34	118.20	118.05	117.91	117.76	117.62	117.47	117.33	117.18	117.04	116.89	116.75	116.60	
DIM E	18.10	18.06	18.02	17.98	17.94	17.90	17.86	17.82	17.78	17.74	17.70	17.66	17.62	17.58	17.54	17.50	17.46	17.42	17.38	17.34	17.30	
EL F	119.33	119.18	119.04	118.89	118.75	118.60	118.46	118.31	118.17	118.02	117.88	117.73	117.59	117.44	117.30	117.15	117.01	116.86	116.72	116.57	116.43	

"AS BUILT" - SLAB ELEVATIONS WERE LOWERED 0.04 FT.

ASBESTOS REPORT



3159 VOYAGER DRIVE
GREEN BAY, WI 54311
920.455.8200 PHONE

Bridge Asbestos Inspection Report

WisDOT Project ID: 1196-04-02
Structure Number: B-03-030
Structure Name: USH 53 SB over 20th Street
City/County: Town of Prairie Lake, Barron County, Wisconsin
GEI project Number: 1901822
Date Inspected: April 4, 2019
Inspected by: Kyle C. Sandmire
Asbestos Inspector License Number: All- 217616
Consultant Company: GEI Consultants, Inc.

Summary:

An asbestos inspection of Structure B-03-030 was conducted on April 4, 2019 by Kyle Sandmire, Asbestos Inspector License No. All-217616. Asbestos-containing material (ACM) **IS** 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. The ACM was detected in the gray caulk between the bridge deck wall joints and the joints between the bridge deck and abutments.

Asbestos-containing material has been found in Structure B-03-030. Standard Special Provision 203-005 shall be included in the plans and abatement will be required. 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-03-030-1A	Brown gasket material	Between the bridge deck and the north abutment	PLM, non-detect	No ACM	N/A
B-03-030-1B	Brown gasket material	Between the bridge deck and the north abutment	PLM, non-detect	No ACM	N/A
B-03-030-1C	Brown gasket material	Between the bridge deck and the north abutment	PLM, non-detect	No ACM	N/A
B-03-030-2A	Brittle gray caulk	Bridge deck wall joints and abutment joints	PLM, 5% Chrysotile Asbestos	Category II Non-friable	30 LF

B-03-030-2B	Brittle gray caulk	Bridge deck wall joints and abutment joints	Not Tested – Positive Stop	See 2A	See 2A
B-03-030-2C	Brittle gray caulk	Bridge deck wall joints and abutment joints	Not Tested – Positive Stop	See 2A	See 2A
B-03-030-3A	Gray caulk	Between several bridge deck wall joints	PLM, 5% Chrysotile Asbestos	Category II Non-friable	20 LF
B-03-030-3B	Gray caulk	Between several bridge deck wall joints	Not Tested – Positive Stop	See 3A	See 3A
B-03-030-3C	Gray caulk	Between several bridge deck wall joints	Not Tested – Positive Stop	See 3A	See 3A
B-03-030-4A	Black/gray expansion material	Between bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-030-4B	Black/gray expansion material	Between bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-030-4C	Black/gray expansion material	Between bridge deck joints	PLM, non-detect	No ACM	N/A
B-03-030-5A	Silver paint	Steel plates between bridge spans and abutment	PLM, non-detect	No ACM	N/A
B-03-030-5B	Silver paint	Steel plates between bridge spans and abutment	PLM, non-detect	No ACM	N/A
B-03-030-5C	Silver paint	Steel plates between bridge spans and abutment	PLM, non-detect	No ACM	N/A

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

GEI CONSULTANTS, INC.



Kyle C. Sandmire
Environmental Scientist



Paul M. Garvey
Senior Scientist

Attachments:

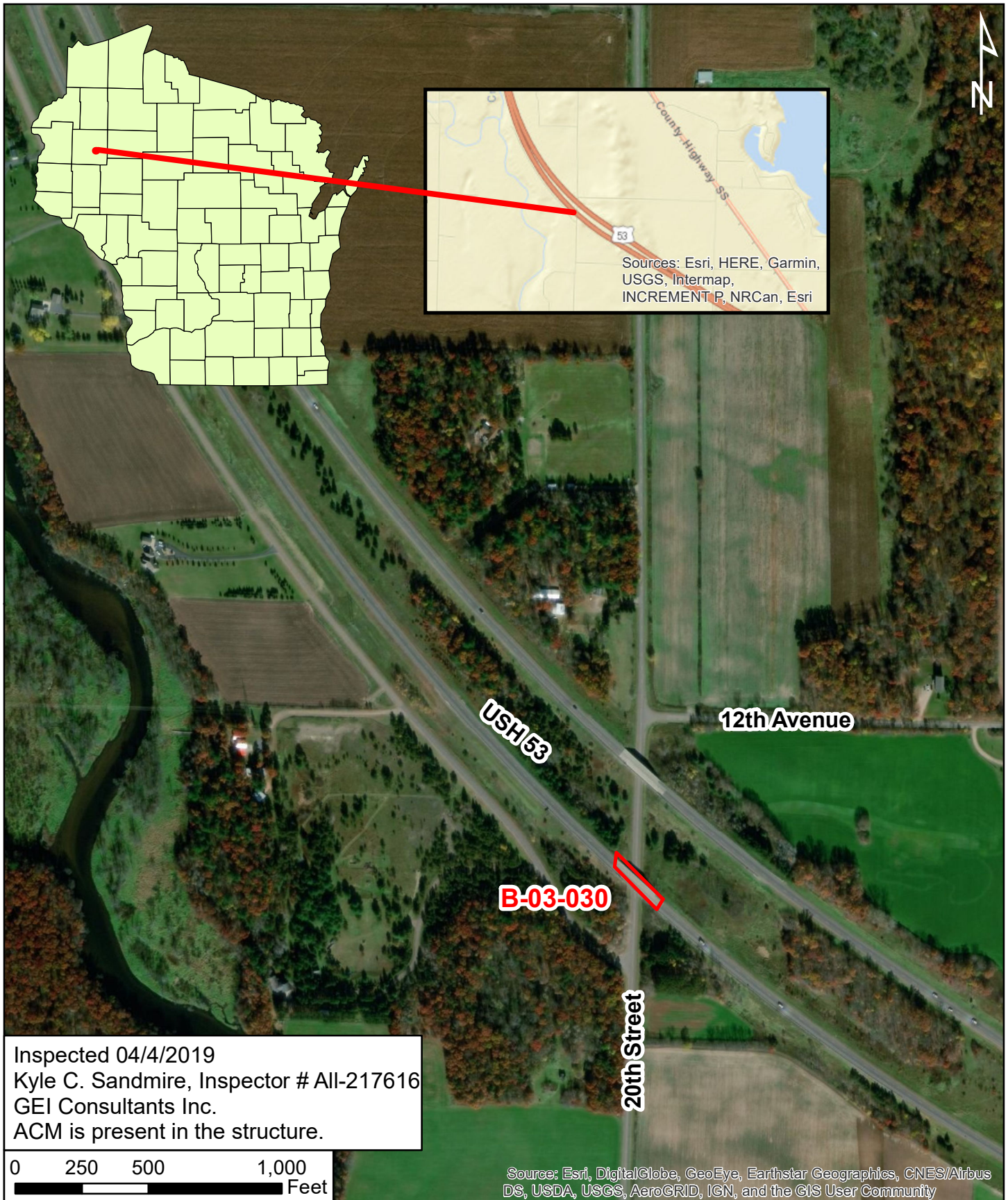
B-03-030 Report Table

B-03-030 Map

B-03-030 Photo Log

B-03-030 Bulk Asbestos Sample Analysis Summary

B-03-030 Bulk Asbestos Sample Chain of Custody



Inspected 04/4/2019
Kyle C. Sandmire, Inspector # All-217616
GEI Consultants Inc.
ACM is present in the structure.

0 250 500 1,000
Feet

GEI
Consultants
3159 Voyager Drive
Green Bay, WI 54311
920.455.8200

WisDOT Project 1196-04-02
Structure B-03-030
USH 53 (SB)
over 20th Street
Barron County

DESIGNED BY	KCS	4/10/2019
DRAWN BY	KCS	4/10/2019
APPROVED BY	PMG	4/10/2019
SCALE	1 inch = 500 feet	
FIGURE NO.	B-03-030	

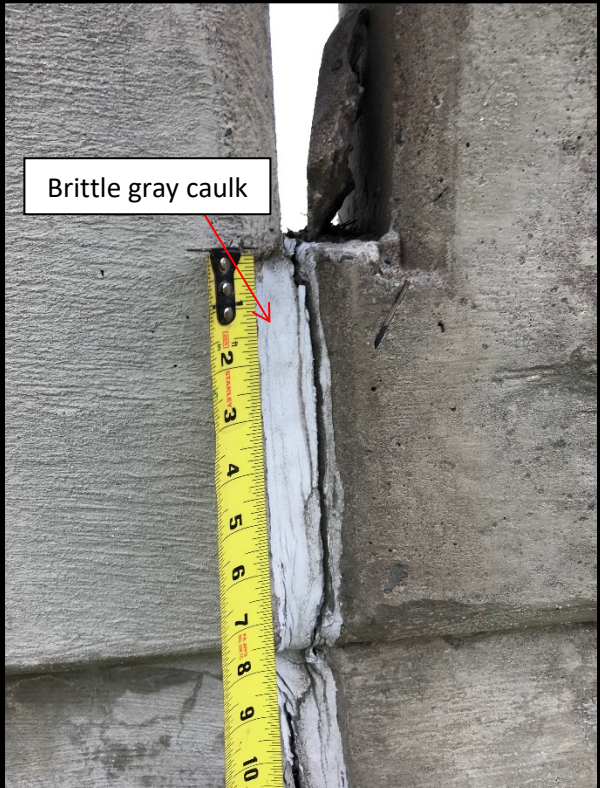
PHOTOGRAPHIC LOG

PHOTOGRAPH NO: 1	
DIRECTION: NW	
DESCRIPTION: Looking northwest at B-03-030.	

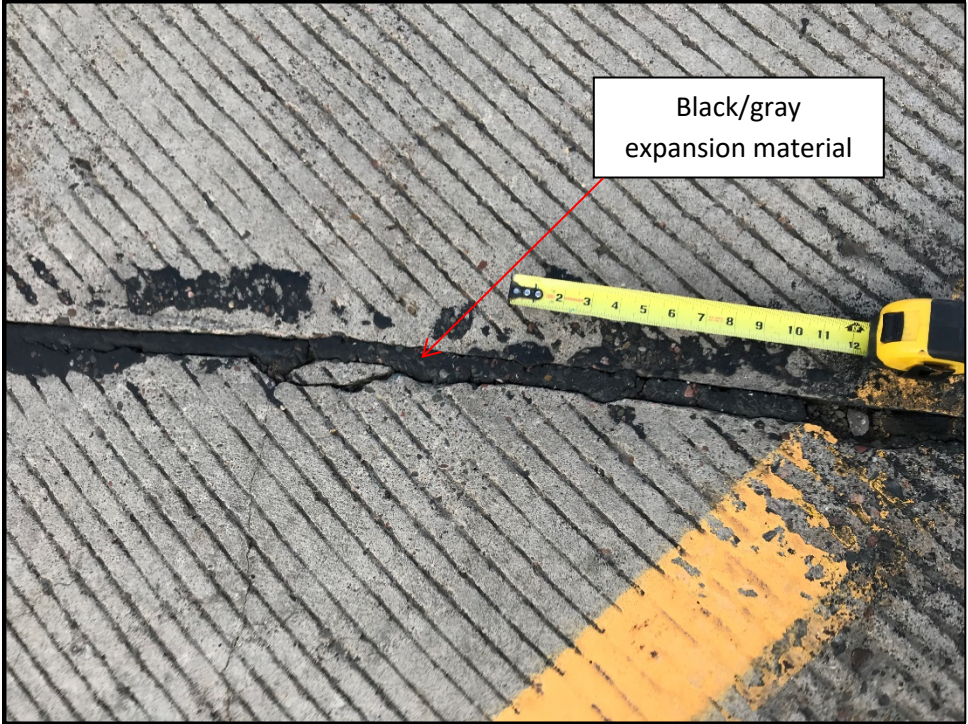
PHOTOGRAPH NO: 2	
DIRECTION: W	
DESCRIPTION: Looking west at B-03-030.	

PHOTOGRAPH NO: 3	
DIRECTION: SW	
DESCRIPTION: View of the bridge identification plate.	

PHOTOGRAPH NO: 4	
DIRECTION: NW	
DESCRIPTION: View of the brown gasket material between the bridge deck and the north abutment. The gasket material is not ACM.	

PHOTOGRAPH NO: 5	
DIRECTION: E	
DESCRIPTION: View of the brittle gray caulk on the bridge wall joints and abutment joints. The gray caulk is non-friable ACM containing 5% Chrysotile asbestos.	

PHOTOGRAPH NO: 6	
DIRECTION: Down	
DESCRIPTION: View of the gray caulk on the bridge deck wall joints. The gray caulk is non-friable ACM containing 5% Chrysotile asbestos.	

PHOTOGRAPH NO: 7	
DIRECTION: Down	
DESCRIPTION: View of the black/gray expansion material on the bridge deck joints. The black/gray expansion material is not ACM.	

PHOTOGRAPH NO: 8	
DIRECTION: E	
DESCRIPTION: View of the silver paint on the steel plates between the south bridge deck and abutment. The silver paint 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: 19-04-02067

Client: GEI Consultants Inc
3159 Voyager Dr.
Green Bay, WI 54311

Received Date: 04/12/2019

Analyzed Date: 04/16/2019

Reported Date: 04/17/2019

Project/Test Address: B-03-030; OSH 53 SB over 20th Street; Town of Prairie Lake, WI

Client Number:

200598

Fax Number:

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02067-001	B-3-30-1A		Brown Cork; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-002	B-3-30-1B		Brown Cork; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-003	B-3-30-1C		Brown Cork; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-004	B-3-30-2A		Gray Soft Pliable; Homogeneous	5% Chrysotile	95% Non-Fibrous
				Total Asbestos: 5%	
19-04-02067-005	B-3-30-2B			Did Not Analyze (Positive Stop)	
19-04-02067-006	B-3-30-2C			Did Not Analyze (Positive Stop)	

Environmental Hazards Services, L.L.C

Client Number: 200598

Report Number: 19-04-02067

Project/Test Address: B-03-030; OSH 53 SB over 20th Street;
Town of Prairie Lake, WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02067-007A	B-3-30-3A	Caulk I	Gray Soft Pliable; Homogeneous	5% Chrysotile	95% Non-Fibrous
Total Asbestos: 5%					
19-04-02067-007B	B-3-30-3A	Caulk II	Gray Pliable; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-008A	B-3-30-3B	Caulk I		Did Not Analyze (Positive Stop)	
19-04-02067-008B	B-3-30-3B	Caulk II	Gray Pliable; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-009A	B-3-30-3C	Caulk I		Did Not Analyze (Positive Stop)	
19-04-02067-009B	B-3-30-3C	Caulk II	Gray Pliable; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-010	B-3-30-4A		Black Pliable; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-011	B-3-30-4B		Black Pliable; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 200598

Report Number: 19-04-02067

Project/Test Address: B-03-030; OSH 53 SB over 20th Street;
Town of Prairie Lake, WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-04-02067-012	B-3-30-4C		Black Pliable; Homogeneous	NAD	100% Non-Fibrous
19-04-02067-013	B-3-30-5A		Red/Silver/Black Brittle; Inhomogeneous	NAD	100% Non-Fibrous
19-04-02067-014	B-3-30-5B		Gray/Silver/Black Brittle; Inhomogeneous	NAD	100% Non-Fibrous
19-04-02067-015	B-3-30-5C		Gray/Silver/Black Brittle; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 200598

Report Number: 19-04-02067

Project/Test Address: B-03-030; OSH 53 SB over 20th Street;
Town of Prairie Lake, WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
-------------------	----------------------	------------	-----------------------	----------	-----------------

QC Sample: 27-M12009-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Michelle Swift

Reviewed By Authorized Signatory:



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



EHS Laboratories™
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



19-04-02067

Due Date:
04/17/2019
(Wednesday)
AE

Company Name: GEI Consultants, Inc.

Account Number: 1901822

Address: 3189 Loyager Drive

City/State/Zip: Green Bay, WI, 54311

Phone #: 920-241-2725

Email: ksandhuire@geiconsultants.com

Fax: 920-455-8225

Project Name / Testing Address: B-03-030, USH 53 SB over 20th Street

City/State (Required): Town of Prairie Lake, WI

Collected by: Kyle C. Sandhuire, AII-217616

P.O. # 1901822

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

No.	Client Sample ID	HA Area #	Collection	PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bulk	Comments
1	B-3030-1A thru 1C		4/14/2019 8:15 AM/PM	X					* Positive step on all "A" thru "C" series.
2	B-3-30-2A thru 2C		8:15 AM/PM	X					Coarse gravel
3	B-3-30-3A thru 3C		8:15 AM/PM	X					fine gray caulk
4	B-3-30-4A thru 4C		8:15 AM/PM	X					Gray caulk
5	B-3-30-5A thru 5C		8:15 AM/PM	X					Black gasket material
6			8:15 AM/PM	X					Silver paint
7			AM / PM						
8			AM / PM						
9			AM / PM						
10			AM / PM						

Released by: Kyle C. Sandhuire Signature: [Signature] Date/Time: 4/14/2019 8:00

Received by: [Signature] Signature: [Signature] Date/Time: 4/14/2019 2:45 PM

BRIDGE INSPECTION REPORT



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Inspection Report for
B-03-030 (20TH STREET)

USH 53 SB over 20TH ST
May 09,2017



Type	Prior	Frequency (mos)	Performed
Routine	05-20-15	24	X
SIA Review	06-19-13	48	X

Latitude	45°22'40.18"N	Owner	STATE HIGHWAY DEPT
Longitude	91°44'44.58"W	Maintainer	STATE HIGHWAY DEPT

Time Log		Team members
Hours	Minutes	
1	0	Wjk

Name	Number	Signature	Date
Inspector	Kovaleski, William J	8007	William J Kovaleski
			E-signed by Bill(dotwjk)
			07-06-17

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 2

Identification & Location

Feature On: USH 53 SB	Section Town Range: S04 T33N R11W	Structure Number: B-03-030
Feature Under: 20TH ST	County: BARRON	
Location 1.7M S JCT USH 8 TO E	Municipality: PRAIRIE LAKE	Structure Name: 20TH STREET

Geometry

measurements in feet, except where noted

Approach Roadway Width: 40	Bridge Roadway Width: 40.0	Total Length: 174.1
Approach Pavement Width: 24	Deck Width: 43.8	Deck Area (sq ft): 7625

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	2	5550	2014	ONE WAY TRAFFIC
Under	2	300	2015	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating: HS22	Overburden depth (in): 2.0	Last rating date: 08-21-13	Controlling: INTERIOR DECK GIRDER Positive Moment
Operating rating: HS33	Deck surface material: LOW SLUMP CONCRETE	Re-rate for capacity (Y/N):	Control location: SPAN 2
Posting:	Re-rate notes:		

Hydraulic

Classification

Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 98.7

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT PREST CONC	DECK GIRDER	45	54.5	
2	CONT PREST CONC	DECK GIRDER	45	69.5	Y
3	CONT PREST CONC	DECK GIRDER	45	45.5	

Expansion joint(s)

Temperature:

File:	New:
-------	------

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	17.23	20-May-2015	
Highway Min Vertical Under Non-Cardinal			
Horizontal Under Cardinal	50.0		
Horizontal Under Non-Cardinal			
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Special Components

Component	Year	Work Performed	Note
DECK - IOWA MIX	1991	OVERLAY - CONCRETE	

Construction History

Year	Work Performed	FOS id
1991	OVERLAY - CONCRETE	1198-05-71
1972	NEW STRUCTURE	1196-05-73

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

page 3

Structure No.: **B-03-030**

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Drainage - Repair Washouts / Erosion	Bjorklund, Allan M (8003)	COMPLETE	01/17/13	
Repair NE surface drain.				
Bearings - Clean Assemblies / Paint	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
clean and paint bearings				
Expansion Joints - Seal	Harrington, Daniel J (8004)	COMPLETE	01/17/13	
repour expansion joints over piers.				

Maintenance Items

Item	Priority	Recommended by	Status	Status change
Deck - Repair Railing	HIGH	Bjorklund, Allan M (8003)	IDENTIFIED	06/29/15
Remove any exposed rebar on east rail that might create a snagging hazard.				
Deck - Seal Surface Cracks	MEDIUM	Kovaleski, William J (8007)	IDENTIFIED	06/21/17
Fill midspan cut joints.				
Substructure - Other Work	LOW	Bjorklund, Allan M (8003)	IDENTIFIED	06/29/15
Seal columns with a concrete sealer from the approved list. 6 columns along 20th.				

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	12		Reinforced Concrete Deck	SF	7,626	7,510	115	1	0
		1080	Delamination - Spall - Patched Area	SF		0	2	1	0
			Full depth repair area and one unrepaired spall, see sketch.						
		1130	Cracking (RC)	SF		0	113	0	0
			Multiple areas with cracking with efflorescence and rust stains, see sketch.						
	8514		Concrete Overlay	SF	7,626	0	7,626	0	0
			13.8 % delam - 1996 extensive map cracking throughout						
	3210		Debonding/Spall/Patched Area/Pothole	SF		0	760	0	0
			10% area has debonded using a chain drag.						
	3220		Crack (Wearing Surface)	SF		0	6,866	0	0
			Random map cracking throughout.						
X	109		Prestressed Concrete Open Girder	LF	869	869	0	0	0
			Hairline cracks at bearing bottom of flange						
		1080	Delamination - Spall - Patched Area	LF		0	0	0	0
X	205		Reinforced Concrete Column	EA	6	6	0	0	0
		1080	Delamination - Spall - Patched Area	EA		0	0	0	0
		1130	Cracking (RC)	EA		0	0	0	0

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X	215		Reinforced Concrete Abutment	LF	108	90	18	0	0
			South abut. cracks under girder seats and wet stains under G3. Same dry stains 05. N abut. crack backwall @ c/l w/eff. dry. South abut wet in 2009, water flowing behind G3. Wet 2011. Dry 2013.						
		1080	Delamination - Spall - Patched Area	LF		0	4	0	0
			Delamination along inside face of G1-4 on north abutment.						
		1130	Cracking (RC)	LF		0	14	0	0
			North abutment has 2 vert cracks, 1 in diaphragm in Bay 2, 1 under G5. South abutment has 12 vert cracks.						
X	234		Reinforced Concrete Cap	LF	98	98	0	0	0
		1130	Cracking (RC)	LF		0	0	0	0
X	300		Strip Seal Expansion Joint	LF	52	52	0	0	0
			rip less than one foot over G3 sout abut. Dirty 2011.						
		2310	Leakage, Seal Adhesion, Damage, Cracking	LF		0	0	0	0
X	311		Moveable Bearing	EA	15	0	10	5	0
			need to be cleaned and painted.						
		1000	Corrosion	EA		0	10	5	0
			Heavy rust on abutment bearings. Freckled rust on Pier 1.						
		2210	Movement	EA		0	0	0	0
		2220	Alignment	EA		0	0	0	0
X	331		Reinforced Concrete Bridge Rail	LF	386	221	140	25	0
			spalls exposed rebar w/rust east parapet. end section removed SW corner metal tube. East rail continues to degrade 2011 with more rust and larger horizontal crack in top six inches. Worse in 2013 on section top conc broken off between posts over 20th. east rail.						
		1080	Delamination - Spall - Patched Area	LF		0	0	25	0
			East rail has spalled with exposed rebar for 25lf, mainly over 20th.						
		1130	Cracking (RC)	LF		0	140	0	0
			Horizontal cracking near top on majority of east rail.						
X	8400		Integral Wingwall	EA	4	2	0	2	0
			North west wing is missing the top rail transition on the downstream end.						
		8903	Wall Deterioration	EA		0	0	2	0
			East wings both have spalled with exposed rebar.						

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Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9001		Drainage - Approach Drain off NE quadrant.	EA	1	1	0	0	0
X	9030		Signs - Object Markers NW sign is twisted slightly.	EA	2	1	1	0	0
X	9043		Slope Protection- Crushed Aggregate with Bit.	EA	2	2	0	0	0
X	9168		Concrete Diaphragm bay 2&3 pier 1, spall @ north side, also bay 2 Pier 2 on north face.	EA	20	17	3	0	0
X	9322		Approach Roadway - Concrete (non-structural) SE slab cracked	EA	2	1	1	0	0
X	9335		Decorative Rail West rail missing 12.5LF on north end, transition piece. East rail impact damage to 66LF at north half.	EA	2	0	1	1	0

NBI Ratings

	File	New
Deck	5	5
Superstructure	7	7
Substructure	6	6
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

OLD: Overall condition of structure is vg. Random map/long. 358 cracks throughout entire deck, 1,000 LF total, not epoxied. Important to note no 359 cracks. All other elements in vg condition. 13.8 % delam **1996**.
(99) in program for deck replacement.
(01) Structure is in overall good condition. The low point being the delam on the deck w/ random map cracking. Still in program for deck replacement. Respray slope protection with bit.

Inspection Specific Notes

2013 Monitor combination rail for loose spalls over 20th.

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Walk-thru

Special Requirements

Chk Hours Cost Comments

STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

B-03-030
USH 53 SB over 20TH ST

LOCATION

(3) Municipality:
 (16) Latitude(° ' "):
 (17) Longitude(° ' "):

PRAIRIE LAKE
45°22'40.18"N
91°44'44.58"W

TRAFFIC SERVICE

(28A) Lanes On:
 (28B) Lanes Under:
 (102) Traffic Pattern On:
 (102) Traffic Pattern Under:
 (19) Detour Length(mi):

2
2
-NO TRAFFIC ☒ -ONE WAY TRAFFIC -TWO WAY TRAFFIC
-NO TRAFFIC -ONE WAY TRAFFIC ☒ -TWO WAY TRAFFIC
1

GEOMETRY

(49) Structure Length(ft):
 (50) Sidewalk Width(ft):
 (50) Curb Width(ft):
 (52) Culvert Barrel Length(ft):
 (34) Skew:

 (51) Bridge Roadway Width(ft):
 (52) Deck Width(ft):
 Right Wingwall Length(ft):
 Left Wingwall Length(ft):
 (32) Approach Roadway Width(ft):

 (47) Minimum Horizontal(ft):
 (55) Minimum Right Lateral(ft):
 (56) Minimum Left Lateral(ft):

174.1	
Left: 0.0	Right: 0.0
3.8	
Angle(°): 40	Direction: ☒ -RIGHT FORWARD -LEFT FORWARD
Cardinal	Non-Cardinal
40.0	40.0
43.8	43.8
40	0
Cardinal Under Clearance	Non-Cardinal Under Clearance
50.0	
14.0	
14.0	

RAILING APPRAISAL

(36A) Bridge Rail Adequacy:
 (36B) Transition Adequacy:
 (36C) Approach Guardrail Adequacy:
 (36D) Guardrail Termination Adequacy:
 Outer Rail:

-SUB-STANDARD ☒ -STANDARD -NOT APPLICABLE		
-SUB-STANDARD ☒ -STANDARD -NOT APPLICABLE		
-SUB-STANDARD ☒ -STANDARD -NOT APPLICABLE		
-SUB-STANDARD ☒ -STANDARD -NOT APPLICABLE		
Left	Right	Type
		TYPE F (TWO SQUARE TUBES) - STEEL(8)
		TYPE F (3 SQUARE TUBES) - STEEL(65)
		TYPE F (4 SQUARE TUBES) - STEEL(72)
		TYPE M-STEEL 3 SQUARE TUBES(93)
		SLOPED FACE PARAPET LF(91)
		SLOPED FACE PARAPET HF(92)
		VERTICAL FACE PARAPET TYPE A(74)
		TYPE W-THRIE BEAM(79)
		TYPE H ON VERTICAL PARAPET(80)
		TIMBER(38)
X	X	OTHER(99) (Please specify) Left: TYPE J (ALUMINUM) ON SLOPED PPT(45) Right: TYPE J (ALUMINUM) ON SLOPED PPT(45)
	CONT GUARD RAIL	
	NO APP GRDRL	
	NO ATTACHMENT	
5	22 MM(7/8") BOLT (Please enter quantity)	
	25 MM(1") BOLT (Please enter quantity)	
	OTHER (Please specify)	
X	(01) ENERGY ABSORBING TERMINAL/EAT	
	(02) TURN DOWN	
	(99) OTHER (Please specify)	

Transition Type:

Approach Attachment Rail Note:
 Guardrail Termination Type:

Guardrail Termination Note:

ROADWAY ALIGNMENT APPRAISAL

(72) Approach Alignment Appraisal:

	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
X	8 Good- No speed reduction

BRIDGE DECK
REPAIR QUANTITIES

12/6/2018

Ken,

Here's a summary of our new direction for the Barron County project. Wing replacements are still in the project and Al Bjorklund wants the joints replaced on the overlays.

I've also included Al's estimated quantities for deck repairs. I would like to have another conference call with Al to discuss this change in scope, let me know if you agree and we'll try to set up a time.

I'm guessing we'll need to amend your design contract.

Let me know if you have questions.

Thanks,

Brendan

1196-04-77

USH 53 (Chippewa Co Line - CTH I NB)

RSRF20

- Change SFY from 2021 to 2023
- Add ADV SFY of 2021
- Change estimate from \$14.460 M to \$12.0 M to reflect BOS-recommended bridge scope changes (see below)
- Update bridge information in FIIPS to reflect BOS-recommended bridge scope changes

1196-04-77:

Current FIIPS Estimate w/o delivery: 14,460,000

New FIIPS Estimate w/o delivery including BOS changes: 12,000,000

Structure Work including: Conc overlays on B-3-14,20,24,30; Conc Overlays and Joints on B-3-26, 37; Re-decks on B-3-16,18 plus any other incidental structure work.

Here are Al's guesses on deck repair quantities, [Type 1\(SY\)](#)-[Type 2\(SY\)](#)-[Full Depth\(SY\)](#)

1) 1196-04-77 (USH 53, Chippewa County Line – USH 8 SB) 2021 RSRF20 \$14.460 M

- B-03-14 (03) CONC OVLY [70-35-2](#)
- B-03-16 (06) REPLACE DECK
- B-03-18 (06) REPLACE DECK
- B-03-20 (03) CONC OVLY [100-50-15](#)
- B-03-24 (03) CONC OVLY [30-15-5](#)
- B-03-26 (58) CONC OVLY/NEW JOINTS [20-10-1](#)
- B-03-30 (03) CONC OVLY [125-60-10](#)
- B-03-37 (58) CONC OVLY/NEW JOINTS [95-45-5](#)