Ohio Bridge Inspection Summary Report

loading.

GEA-00422-0026 (2801558)

2: DistrictDistr 03590 - BAII ict 12	NBRIDGE TWI	P (GEA county)		5A: Inventory Ro	oute 1	C0188	3		
21: Major Maint A/B 01 - State Highway Agency /			/	7: Facility On CHAGRIN RIVER ROAD					
225 Routine Main A/B 02 - County Highway Agency /			6: Feature Ints	USR 422 A	LT (0026)				
221 Inspection A/B 01 - State Highway Agency /			9: Location .26 MI E GEAUGA CNTY LINE						
220: Inv. Location DISTRICT 12			Lat, Lon 41.388078 ,-81.386844						
	Condition	1			Str	ucture Typ	е		
58: Deck	7 - Good Co	ndition		43: Bridge T	ype 4 - Ste	eel continuou	S		
58.01 Wearing Surface	7 - Good (19	6 distress)			02 - S	tringer/Multi-b	oeam or Girder		
58.02 Joint	6- Satisfacto	ry (isolated leak	king)	N- Not Applica					
59: Superstructure	6 - Satisfact	ory Condition		45: Spans M	lain / Approa	ich 4	/ 0		
59.01 Paint & PCS	4 - Poor PCS	S (15-20% corr.))	107: Deck Type		1 - Concrete	e Cast-in-Place		
60: Substructure	7 - Good Co	ndition		408: Composite Deck		Y - Composite Construction			
61: Channel	N			414A Joint T	ype 1	3 - Compression Seal			
61.01 Scour	N - Not App	licable		414B: Joint	Туре 2	N - None			
62: Culverts	N - Not App	licable		108A: Wearing Surface		 Monolithic Concrete (concurrently placed with structura deck) 			
67.01 GA	6					N- Not Appl	icable		
	Appraisa			422: WS Dat	e	07/01/1989			
Sufficiency Rating	85.5			423: WS Thick (in)		2.0			
36: Rail, Tr, Gd, Term Std	1 1	1	1	482: Protective Coating		3 - Paint System A			
72: Approach Alignment	-	•	-	483: PCS Date		01/01/1989			
113: Scour Critical	t 8 - Equal to present desirable criteria N - Not over waterway		453: Bearing Type 1		4 - Elastomeric (Plain)				
71: Waterway Adequacy	· · · · · · · · · · · · · · · · ·			455: Bearing Type 2		N - None			
Geometric			528: Foundr	: Abut Fwd	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)				
40.14 0 1 (1)	Geometric] 533: Foundr	: Abut Rear		Place reinforced		
48: Max Span Length (ft)		69.0				Concrete Pi	les (Other diameter)		
49: Structure Length (ft)		244.0		536: Foundr	n: Pier 1		Place Reinforced les (Other diameter)		
52: Deck Width, Out-To-Out (ft) 34.0			539: Foundr	: Pier 2	0 - Other				
424: Deck Area (sf) 8296		Age and Service							
32: Appr Roadway Width (f	t)	32.0		27: Year Bui	lt/ 106 Reha	b 1989	/ 0000		
51: Road Width, Curb-Curb (ft) 31.8			42A: Service	42A: Service On 1 - Highway					
50A: Curb/SW Width: Left (ft)		0		42B: Service Under		1 - Highway, with or w/out pedestrian			
50A: Curb/SW Width: Right	: (ft)	0		28A: Lanes	on	02			
34: Skew (deg)		6		28B: Lanes	Under	04			
33: Bridge Median		0 - No mediar	า	19: Bypass I	_ength	3			
54B: Min Vert Underclearar	nce (ft)	14.83		29: ADT		33720			
336A: Min Vert Clrnce IR C	ardinal (ft)	99		109: % Truc	ks (%)	12			
336B: Min V Clr IR Non-Ca	rdinal (ft)	0			Iner	pections			
578: Culvert Length (ft)		0			11134	Months			
	Load Postir	ıg		90: Routine	-	12	03/17/2022		
41: Op/Post/Closed	A - Open			92A: FCM In	-	0			
70: Posting 5 - Equal to or above legal loads			92B: Dive In	•	0				
70.01: Date				92C: Specia	-	0			
70.02: Sign Type				92D: UBIT Ir	•	0			
734: Percent Legal (%)			92E: Drone I	nsp. N	0				
704: Analysis Date			Inspector	Gerstenslag	er,Michael				
63: Analysis Method		or (LF) rating re RF) method usir							

Inspector: Michael Gerstenslager **Structure Number:** 2801558

Inspection Date: 03/17/2022 Facility Carried: CHAGRIN RIVER ROAL

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12 - Reinforced Concrete Deck	3 - Mod.	8296	sq. ft.	7763	500	33	0	
	CS2 - Four sf patched area in bay 1 near collision damage. Some cracks, minor mottled areas at abutments.							
	CS3 - Haunch spalls along left fascia top flange above pier 1.							
805 - Wearing Surface - Monolithic Concrete		7747	sq. ft.	6872	875	0	0	
	CS2 - A few cracks. Small spalls at ExJt armor.							
107 - Steel Open Girder/Beam	3 - Mod.	976	ft.	835	125	16	0	
	CS2 - Areas of surface rust mainly to lower flanges. Left fascia over EB has been heat straightened over #2 and bolted splice plate added. Drilled out crack to left fascia over #2 EB. CS3 - Rusting section loss at ends.							
515 - Steel Protective Coating		7954	sq. ft.	0	7254	300	400	
	CS2 - Chalki	ng and fa	ded pai	nt through	out.			
	CS3 - Peeling top coat of some areas of paint throughout. Blistering paint. CS4 - Heat straightening damaged paint exposing bare metal. Areas of paint failure to flanges and beam ends.							
205 - Reinforced Concrete Column	3 - Mod.	6	each	2	4	0	0	
	CS2 - P1C2 have areas of				n and 1sf s	spall. P3 co	olumns	
215 - Reinforced Concrete Abutment	3 - Mod.	69	ft.	63	4	2	0	
	Rust stained from leaking joint. CS2 - A few vertical cracks, some leaching. CS3 - Spalls at rear B1 and B3.							
234 - Reinforced Concrete Pier Cap	3 - Mod.	103	ft.	85	15	3	0	
	CS2 - A few cracks at car CS3 - Spall v Delam at P1	ntilevers. with expos	sed reba					
300 - Strip Seal Expansion Joint	3 - Mod.	65	ft.	8	51	6	0	
	CS2 - Crack rusting section CS3 - Both juboth ends.	on loss.				·		

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Element Inspection

311 - Movable Bearing	3 - Mod.	16	each	7	0	9	0	
	CS3 - Restraint angle of left bearing at rear abutment is bent up. Restraint angle of left bearing at P1 is missing due to old collision damage. Rusting section loss to abutment bearings							
313 - Fixed Bearing	3 - Mod.	4	each	4	0	0	0	
321 - Reinforced Concrete Approach Slab	3 - Mod.	1625	sq. ft.	1520	100	5	0	
	CS2 - A few longitudinal cracks, some sealed.							
	CS3 - Shallow spall at forward. A few small pop outs.							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	488	ft.	458	30	0	0	
	CS2 - A few vertical cracks. Shallow spall to top edge & diagonal cracks to railing above left fascia collision damage.							
815 - Drainage	3 - Mod.	2	each	2	0	0	0	
	CS2 -							
830 - Abutment Backwall	3 - Mod.	69	ft.	45	21	3	0	
	CS2 - A few cracks and shallow spalls to underside near ExJts.							
	CS 3: 3' spall with exposed rebar at forward in bay 3.							

GEA-00422-0026 _(2801558)

ODOT District: District 12 Major Maint: 01 - State Highway Agency

Facility Carried: CHAGRIN RIVER ROAD

Traffic On: 1 - Highway

Date Built: Rehab Date:

07/01/1989

FIPS Code: 03590 - BAINBRIDGE TWP (GEA county)

Routine Maint: 02 - County Highway Agency

Feature Inters: USR 422 ALT (0026) Traffic Under: 1 - Highway, with or w/out pedestrian Location: DISTRICT 12 .26 MI E GEAUGA CNTY LINE

Insp. 01 - State Highway Agency Resp A: Insp Resp B:

Gerstenslager, Michael Inspection Date 03/17/2022

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Cracks, most are sealed. Large asphalt patches.

Approach Embankment

Erosion that runs into & under both upper corners of rear slope protection.

Approach Guardrail

Post rot. Missing spacer at forward left. Collision scrapes. Both rear concrete approach rails tip out as much as 1/2"

Signs

No bridge end markers.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Superstructure Alignment

Left fascia is warped from heat straightening. Lower flange of left fascia is bowed up from collision damage.

Beams

Note: Bolted plate repairs added to lower flanges of left fascia & beam 2 over EB traffic.

Diaphragm/X-Frames

Rusting section loss throughout (heavy to endframes).

Fatigue

Welded moment plates at piers.

Substructure

Slope Protection

Rear-right abutment footing is exposed due to undermining of slope. Undermining extends under grout filled bags as far as 8'. Rear-left has some undermining. Note: Abutment footing founded on piles.

Culvert

Inspector Comments - Waterway Waterway Adequacy

Channel

Scour Critical

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Pictures