

Inspector: Krazl,David
Inspection Date: 02/24/2023

Structure Number: 0900052
Facility Carried: MILLIKIN ROAD CR-2

Ohio Bridge Inspection Summary Report

BUT-0004B-0575 (0900052)

2: District	25984 - FAIRFIELD TWP (BUT county)	5A: Inventory Route	1	00022
ict				
08				
21: Major Maint A/B	02 - County Highway Agency	7: Facility On	MILLIKIN ROAD CR-2	
225 Routine Main A/B	02 - County Highway Agency	6: Feature Ints	STATE ROUTE 4-B	
221 Inspection A/B	01 - State Highway Agency	9: Location	.22 MILES SOUTH OF SR-4	
220: Inv. Location	DISTRICT 08	Lat, Lon	39.40626930922	,-84.502458834264

Condition		Structure Type		
58: Deck	6 - Satisfactory Condition	43: Bridge Type	5 - Prestressed concrete	
58.01 Wearing Surface	4 - Poor (advanced)		05 - Box Beam or Girders - Multiple	
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable	
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach	3	/ 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type	1 - Concrete Cast-in-Place	
60: Substructure	7 - Good Condition	408: Composite Deck	Y - Composite Construction	
61: Channel	N	414A Joint Type 1	8 - Elastomeric Strip Seal	
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None	
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)	
67.01 GA	6		N- Not Applicable	

Appraisal			
Sufficiency Rating	93.3	SD/FO	2 - FO
36: Rail, Tr, Gd, Term Std	1	1	1
72: Approach Alignment	8 - Equal to present desirable criteria		
113: Scour Critical	N - Not over waterway		
71: Waterway Adequacy	N - Not Applicable		

Geometric			
48: Max Span Length (ft)	93.0	422: WS Date	
49: Structure Length (ft)	236.5	423: WS Thick (in)	1.0
52: Deck Width, Out-To-Out (ft)	36.3	482: Protective Coating	B - Epoxy - Urethane sealers
424: Deck Area (sf)	8584.95	483: PCS Date	01/01/2000
32: Appr Roadway Width (ft)	33.0	453: Bearing Type 1	C - Elastomeric (laminated)
51: Road Width, Curb-Curb (ft)	33.0	455: Bearing Type 2	N - None
50A: Curb/SW Width: Left (ft)	0	528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
50A: Curb/SW Width: Right (ft)	0	533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
34: Skew (deg)	0	536: Foundn: Pier 1	4 - Spread Footing (on soil)
33: Bridge Median	0 - No median	539: Foundn: Pier 2	N - None (Such as most Culverts)
54B: Min Vert Underclearance (ft)	25		
336A: Min Vert Clrnce IR Cardinal (ft)	99		
336B: Min V Clr IR Non-Cardinal (ft)	0		
578: Culvert Length (ft)	0		

Age and Service			
27: Year Built/ 106 Rehab	2000	/ 0000	
42A: Service On	1 - Highway		
42B: Service Under	1 - Highway, with or w/out pedestrian		
28A: Lanes on	02		
28B: Lanes Under	02		
19: Bypass Length	1		
29: ADT	6540		
109: % Trucks (%)	6		

Inspections			
90: Routine Insp.	12	Months	02/24/2023
92A: FCM Insp.	N		0
92B: Dive Insp.	N		0
92C: Special Insp.	N		0
92D: UBIT Insp.	N		0
92E: Drone Insp.	N		0
Inspector	Krazl,David		

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	07/01/2001

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63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	8593	sq. ft.	6954	1638	1	0
		CS2: Possibly some minor seepage/leakage in span 1 between beams 4, 5, 7, 8 & 9. Span 2, leakage between beams 4, 5 and 6. Span 3, evidence of leakage between 2, 3, 6, 7 & 8. Beam 9 at right fwd. and rear outside, HL cracks. Beam 1 at left fwd. and rear, outside, HL cracks, one 20-1/2" HL vertical crack. Cracks to beam ends @ piers. Horizontal cracks to OS fascia up approx. 10" from bottom, and up to 12' in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'1 by 0.5'w and 5'1 by 0.5'w, and another area next to pier 1 left side 4'1 by 0.5'w. Span 2, leakage with 0.5'1 by 0.2'w area of saturated concrete inside 16'1 by 0.5'w area of efflor. Span 3, beam 4, has a small spall out from abut to rt bottom edge. CS3: Beam 9, rear right edge has spall with 1 strand exposed.					
805-Wearing Surface - Monolithic Concrete		7805	sq. ft.	0	5360	2445	0
	CS2: Definite longitudinal cracks running along beam lines. Cracks measure <.05in wide with spacing <1' to 3'. 2019, used chain to sound deck, only found a few small areas of delam. No signs of wearing surface pulling away or spalling. Shallow spalls at fwd. along deck steel. 4"1 x 1" w. Void in left rear WS. (2021; 2022 Used a hammer in a few areas to check, found a few small areas.) CS3: Areas of HL/pattern map cracking with spacing >1' apart.						
104-Prestressed Concrete Closed Web/Box Girder	3 - Mod.	2128	ft.	489	1638	1	0
	CS2: Evidence of minor seepage/leakage in span 1 between beams 4, 5, 7, 8 & 9. Span 2, leakage between beams 4, 5 and 6. Span 3, evidence of leakage between 2, 3, 6, 7 & 8. Beam 9 at right fwd. and rear outside, HL cracks. Beam 1 at left fwd. and rear, outside, HL cracks, one 20-1/2" HL vertical crack. Cracks to beam ends @ piers. Horizontal cracks to OS fascia up approx. 10" from bottom, and up to 12' in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'1 by 0.5'w and 5'1 by 0.5'w, and another area next to pier 1 left side 4'1 by 0.5'w. Span 2, leakage with 0.5'1 by 0.2'w area of saturated concrete inside 16'1 by 0.5'w area of efflor. Span 3, beam 4, has a small spall out from abut to rt bottom edge. CS3: Beam 9, rear right edge has spall with 1 strand exposed.						
205-Reinforced Concrete Column	3 - Mod.	6	each	0	6	0	0
	CS2: HL vertical cracks to columns. Areas of light rust staining appearing in cracks. Small shallow spall and scrapes at pier 2 column 3 up from ground.						
521-Concrete Protective Coating		1695	sq. ft.	1695	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	73	ft.	58	15	0	0
	CS2: HL vertical cracks,a few with efflor. (15 l/ft)						
521-Concrete Protective Coating		365	sq. ft.	365	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	73	ft.	70	3	0	0
	CS2: HL vertical and diagonal cracks in caps over OS columns.						
300-Strip Seal Expansion Joint	3 - Mod.	72	ft.	27	45	0	0
	CS2: Medium debris in glands, not effecting performance. HL cracking in header @ a few shallow spalls.						

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ODOT District: District 08

Major Maint: 02 - County Highway Agency

Routine Maint: 02 - County Highway Agency

FIPS Code: 25984 - FAIRFIELD TWP (BUT county)

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Feature Inters: STATE ROUTE 4-B

Location: DISTRICT 08

Traffic On: 1 - Highway

Traffic Under: 1 - Highway, with or w/out pedestrian

.22 MILES SOUTH OF SR-4

Inspector

Krahl,David

Inspection Date 02/24/2023

Reviewer Collett,Brandon

Date Built: 07/01/2000

Rehab Date:

Insp. 01 - State Highway Agency

Resp A:

Insp

Resp B:

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Inspector Comments - Deck and Approach

Deck

Concrete Deck

Evidence of leakage between beams. HL cracks visible in exterior fascia of OS beams. Few small spalls; beam 4 at fwd. abutment and rear, beam 9, with one strand exposed.

Wearing Surface

HL pattern map cracking throughout surface. ("4" rating based on map cracking throughout surface but there is no evidence of surface pulling away or delaminating. 2022; sounded random areas with hammer.) Small shallow spalls along joint steel.

Railing

Vertical cracks in both rails with horizontal crack along top of lower haunch. Aggregate pops, cracks at post mountings and some light staining.

Drainage

Expansion Joint

HL cracks in slab headers, some debris in glands.

Approach

Approach Wearing Surface

Narrow potholes, with cracking at, along fwd. pvmnt/appr jnt, transverse and longitudinal cracks. Profile of asphalt low at slab, some rutting in fwd. area. Rear has newer asphalt.

Approach Slabs

Longitudinal cracks rear and fwd., one up to 1/16" wide fwd. Narrow spalls and impact damage at header and pavement joints.

Approach Embankment

Minor pavement settlement along approach slab ends. Some signs of base failure mainly at rear. (Rear has newer overlay.)

Approach Guardrail

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Right rear, one panel has minor dent, one block turned. Left fwd., 2 panels damaged and one steel post moved.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders

Some evidence of seepage through beams in random areas, some small areas of saturation. Leakage: Span 1 between beams 4-9. Span 2 between beams 4-6 and span 3 between beams 2, 3 and 6-8. HL vertical and horizontal cracks to exterior faces of OS beams at rear and fwd. ends and over piers. Small spall in beam 4 at fwd. abutment and beam 9, over rear abutment with one strand exposed.

Bearings

Slight movement of few bearing pads.

Protective Coating System

Sides and approx. 10" of left and right floor edges sealed with epoxy. Epoxy sealer peeling on railing, WW's and some columns.

Substructure

Abutments

HL vertical cracks, some efflor. rear and fwd.

Pier Columns

HL cracks to few columns, some with staining. Shallow spall, scrape to col. 3, pier 2.

Pier Caps

HL vertical and diagonal/shear cracks over OS columns.

Wingwalls

Minor random hairline cracks. Sealer peeling to WW tops.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

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Channel

Scour Critical

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Pictures