

Ohio Bridge Inspection Summary Report

BUT-0004B-0575 (0900052)

2: District Distr 25984 - FAIRFIELD TWP (BUT county)

ict
08

21: Major Maint A/B 02 - County Highway Agency /

225 Routine Main A/B 02 - County Highway Agency /

221 Inspection A/B 01 - State Highway Agency /

220: Inv. Location DISTRICT 08

5A: Inventory Route 1 00022

7: Facility On MILLIKIN ROAD CR-2

6: Feature Ints STATE ROUTE 4-B

9: Location .22 MILES SOUTH OF SR-4

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		422: WS Date	
Sufficiency Rating	93.3 SD/FO 2 - FO	423: WS Thick (in)	1.0
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	B - Epoxy - Urethane sealers
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	01/01/2000
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	C - Elastomeric (laminated)
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None
Geometric		528: Foundn: Abut Fwd	
48: Max Span Length (ft)	93.0	533: Foundn: Abut Rear	4 - Spread Footing (on soil)
49: Structure Length (ft)	236.5	536: Foundn: Pier 1	4 - Spread Footing (on Soil)
52: Deck Width, Out-To-Out (ft)	36.3	539: Foundn: Pier 2	N - None (Such as most Culverts)
424: Deck Area (sf)	8584.95	Age and Service	
32: Appr Roadway Width (ft)	33.0	27: Year Built/ 106 Rehab	2000 / 0000
51: Road Width, Curb-Curb (ft)	33.0	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)	0	28B: Lanes Under	02
33: Bridge Median	0 - No median	19: Bypass Length	1
54B: Min Vert Underclearance (ft)	25	29: ADT	6540
336A: Min Vert Clrnce IR Cardinal (ft)	99	109: % Trucks (%)	6
336B: Min V Clr IR Non-Cardinal (ft)	0	Inspections	
578: Culvert Length (ft)	0	90: Routine Insp.	12 Months 03/15/2022
Load Posting		92A: FCM Insp.	N 0
41: Op/Post/Closed	A - Open	92B: Dive Insp.	N 0
70: Posting	5 - Equal to or above legal loads	92C: Special Insp.	N 0
70.01: Date		92D: UBIT Insp.	N 0
70.02: Sign Type		92E: Drone Insp.	N 0
734: Percent Legal (%)	150	Inspector	Lentz,Stephanie
704: Analysis Date	07/01/2001		
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.		

Inspector: Stephanie Lentz

Inspection Date: 03/15/2022

Structure Number: 0900052

Facility Carried: MILLIKIN ROAD CR-2

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.	8593	sq. ft.	6954	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' by 0.5'w and 5' by 0.5'w, and another area next to pier 1 left side 4' by 0.5'w. Span 2, leakage with 0.5' by 0.2'w area of saturated concrete inside 16' 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" l 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' by 0.5'w and 5' by 0.5'w, and another area next to pier 1 left side 4' by 0.5'w. Span 2, leakage with 0.5' by 0.2'w area of saturated concrete inside 16' 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.						
215 - Reinforced Concrete Abutment	3 - Mod.	73	ft.	58	15	0	0
	CS2: HL vertical cracks,a few with efflor. (15 l/ft)						

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Element Inspection

ODOT District: District 08

BUT-0004B-0575_(0900052)

Date Built: 07/01/2000

Major Maint: 02 - County Highway Agency

Facility Carried: MILLIKIN ROAD CR-2

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 02 - County Highway Agency

Feature Inters: STATE ROUTE 4-B

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

Insp. 01 - State Highway Agency
Resp A:

FIPS Code: 25984 - FAIRFIELD TWP (BUT county)

Location: DISTRICT 08

.22 MILES SOUTH OF SR-4

Insp
Resp B:

Inspector

Lentz,Stephanie

Inspection Date 03/15/2022

Reviewer Meyer,Jeff

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 delaming. 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. pvmt/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

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

Channel

Scour Critical

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Pictures