

Inspector: Krazl,David  
Inspection Date: 02/26/2024

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

## 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	
<b>58: Deck</b>	<b>6 - Satisfactory Condition</b>	43: Bridge Type	5 - Prestressed concrete
58.01 Wearing Surface	4 - Poor (advanced)	50 - Box Beam or Girders - Multiple	
58.02 Joint	6- Satisfactory (isolated leaking)	N- Not Applicable	
<b>59: Superstructure</b>	<b>6 - Satisfactory Condition</b>	45: Spans Main / Approach 3 / 0	
59.01 Paint & PCS	N - Not Applicable	107: Deck Type 1 - Concrete Cast-in-Place	
<b>60: Substructure</b>	<b>7 - Good Condition</b>	408: Composite Deck Y - Composite Construction	
<b>61: Channel</b>	<b>N</b>	414A Joint Type 1 8 - Elastomeric Strip Seal	
<b>61.01 Scour</b>	<b>N - Not Applicable</b>	414B: Joint Type 2 N - None	
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface 1 - Monolithic Concrete (concurrently placed with structural deck)	
<b>67.01 GA</b>	<b>6</b>	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 4 - Spread Footing (on soil)	
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 02/26/2024	

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

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

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12-Reinforced Concrete Deck</b>	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'l in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'l by 0.5'w and 5'l by 0.5'w, and another area next to pier 1 left side 4'l by 0.5'w. Span 2, leakage with 0.5'l by 0.2'w area of saturated concrete inside 16'l 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.					
<b>805-Wearing Surface - Monolithic Concrete</b>		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, 23) 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.						
<b>104-Prestressed Concrete Closed Web/Box Girder</b>	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'l in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'l by 0.5'w and 5'l by 0.5'w, and another area next to pier 1 left side 4'l by 0.5'w. Span 2, leakage with 0.5'l by 0.2'w area of saturated concrete inside 16'l 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.						
<b>205-Reinforced Concrete Column</b>	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.						
<b>521-Concrete Protective Coating</b>		1695	sq. ft.	1695	0	0	0
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	73	ft.	58	15	0	0
	CS2: HL vertical cracks,a few with efflor. (15 l/ft )						
<b>521-Concrete Protective Coating</b>		365	sq. ft.	365	0	0	0
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	73	ft.	70	3	0	0
	CS2: HL vertical and diagonal cracks in caps over OS columns.						
<b>300-Strip Seal Expansion Joint</b>	3 - Mod.	72	ft.	27	45	0	0
	CS2: Medium debris in glands, not effecting performance. HL cracking in header @ a few shallow spalls.						
<b>310-Elastomeric Bearing</b>	3 - Mod.	72	each	69	3	0	0
	CS2: Beam 1 at lt fwd, bearing pad moved in towards BW, approx half of bearing pad out from under beam 1, no noticeable change from last inspection. (Same in 2019 @ 2020 )						

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<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	1650	sq. ft.	1334	291	25	0
		CS2: Longitudinal cracks <.05in wide, rear with trans and longi cracks in fwd slab. A couple narrow spalls, fwd. Left fwd slab side exposed at pavement jnt from water runoff. Impact damage to slabs at pvmt joints due to low profile of asphalt. CS3: One longi crack fwd, .06" wide.					
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	473	ft.	0	473	0	0
		Moderate rusting at VPF posts, bottoms. CS2: Vertical cracks between deflection joints, horizontal cracking along top of bottom bevel area. Vertical and diagonal cracks around post anchor bolts. Numerous shallow aggregate popouts. Sealer peeling at fwd railing @ tops of railings. HL horiz cracks on outside face around VPF bases. Some light rust staining evident.					
<b>521-Concrete Protective Coating</b>		3784	sq. ft.	1892	0	0	1892
		CS-4 Peeling on all sides of concrete parapets.					
<b>815-Drainage</b>	3 - Mod.	2	each	0	2	0	0
		CS2: 2022, Water standing along lft fwd railing. None in 2023.					
<b>830-Abutment Backwall</b>	3 - Mod.	73	ft.	62	11	0	0
		CS2: Vertical,horiz cracks visible at corners of BW close to WW joints, with efflor buildup.					

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<b>BUT-0004B-0575_(0900052)</b>			
ODOT District:	District 08	Date Built:	07/01/2000
Major Maint:	02 - County Highway Agency	Facility Carried:	MILLIKIN ROAD CR-2
Routine Maint:	02 - County Highway Agency	Feature Inters:	STATE ROUTE 4-B
FIPS Code:	25984 - FAIRFIELD TWP (BUT county)	Location:	DISTRICT 08 .22 MILES SOUTH OF SR-4
Inspector	Krahl,David	Inspection Date	02/26/2024
			Reviewer Meyer,Jeff
			Insp. 01 - State Highway Agency
			Resp A:
			Insp. Resp B:

### 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**

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

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### **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**

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**Scour Critical**

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**Pictures**