

Inspector: Gerstenslager,Michael

Inspection Date: 07/27/2023

Structure Number: 4304268

Facility Carried: MORLEY RD

Ohio Bridge Inspection Summary Report

LAK-00090-1297 (4304268)

2: District 18196 - CONCORD TWP (LAK county)
District 12

5A: Inventory Route 1 C0417

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 01 - State Highway Agency /
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 12

7: Facility On MORLEY RD
6: Feature Ints I-90
9: Location 11 MI E SR615
Lat, Lon 41.657778 ,-81.275172

Condition	Structure Type
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58: Deck **5 - Fair Condition**
58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)
58.02 Joint 8- Very Good
59: Superstructure **7 - Good Condition**
59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)
60: Substructure **7 - Good Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**

43: Bridge Type 4 - Steel continuous
02 - Stringer/Multi-beam or Girder
N- Not Applicable
45: Spans Main / Approach 6 / 0
107: Deck Type 1 - Concrete Cast-in-Place
408: Composite Deck N - Non-composite Construction
414A Joint Type 1 2 - Sliding Metal Plate Angle
414B: Joint Type 2 N - None
108A: Wearing Surface 1 - Monolithic Concrete
(concurrently placed with structural deck)
N- Not Applicable

67.01 GA 7

Appraisal

Sufficiency Rating 81.6 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std 1 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

422: WS Date 05/31/1990
423: WS Thick (in) 1.2
482: Protective Coating 5 - Paint System OZEU
483: PCS Date 10/21/2001
453: Bearing Type 1 2 - Rockers & Bolsters
455: Bearing Type 2 N - None
528: Foundn: Abut Fwd 1 - Steel H Piles (Other size)
533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)
536: Foundn: Pier 1 4 - Spread Footing (on soil)
539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 120.0
49: Structure Length (ft) 662.0
52: Deck Width, Out-To-Out (ft) 26.0
424: Deck Area (sf) 17212
32: Appr Roadway Width (ft) 24.0
51: Road Width, Curb-Curb (ft) 24.0
50A: Curb/SW Width: Left (ft) 2.2
50A: Curb/SW Width: Right (ft) 2.2
34: Skew (deg) 53
33: Bridge Median 0 - No median
54B: Min Vert Underclearance (ft) 17.15
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 1961 / 0000
42A: Service On 1 - Highway
42B: Service Under 1 - Highway, with or w/out pedestrian
28A: Lanes on 02
28B: Lanes Under 04
19: Bypass Length 2
29: ADT 1672
109: % Trucks (%) 5

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 03/10/2023
63: Analysis Method 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspections

	Months	
90: Routine Insp.	12	07/27/2023
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

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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.	18475	sq. ft.	8025	9000	1450	0
<p>CS2- Many cracks, some leaching, some with rust stains. Epoxy injected areas. Delams</p> <p>CS3- Spalls, some with exposed rebar in span 2. Cracks with heavy leaching, some have stalactites. Heavily mottled and saturated areas throughout that coincide with asphalt patches and wide cracks in wearing surface.</p>							
805-Wearing Surface - Monolithic Concrete		15696	sq. ft.	2870	12676	100	50
<p>CS2- Cracks and delams</p> <p>CS3- Wide cracks. Some spalls. Broken up concrete.</p> <p>CS4- Asphalt patches.</p> <p>Note: Overlay is beginning to separate from deck and holding water.</p>							
107-Steel Open Girder/Beam	3 - Mod.	2616	ft.	2485	120	8	3
<p>CS2- Both fascia beams end repaired with bolted plates at forward and rear right. Welded plate repairs to all fascia beam ends behind bearing stiffeners. Areas of minor rust to lower flanges over traffic.</p> <p>CS3- Heavier rust section loss at beam ends.</p> <p>CS4- Rust thru hole at top of web of left fascia. 3" diameter rust hole in web near top flange of right fascia at forward. Rusted through holes to stiffener under bearing of left fascia at forward abutment.</p>							
515-Steel Protective Coating		37409	sq. ft.	36475	690	225	19
<p>CS2- Minor surface rust.</p> <p>CS3- Heavier rust and start of paint peel mainly to lower flanges over traffic.</p> <p>CS4- Isolated spot of bare rusted metal.</p>							
205-Reinforced Concrete Column	3 - Mod.	20	each	18	2	0	0
<p>CS2- P1C4- 5 SF delam P5C4- 4 SF delam</p>							
521-Concrete Protective Coating		2460	sq. ft.	2460	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	90	ft.	66	20	4	0
<p>CS2- Cracks, some with rust stains. Minor spalls at weep holes.</p> <p>CS3- Delam at rear runs into bearing #2</p>							
521-Concrete Protective Coating		513	sq. ft.	513	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	216	ft.	180	33	3	0
<p>CS2- A few cracks and delams.</p> <p>CS3- Small spall to P1 near C3-4</p>							
521-Concrete Protective Coating		2453	sq. ft.	2453	0	0	0
303-Assembly Joint with Seal	3 - Mod.	90	ft.	0	90	0	0
<p>CS2- Debris in joint.</p>							
311-Movable Bearing	3 - Mod.	24	each	24	0	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
313-Fixed Bearing	3 - Mod.	4	each	4	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	2012	sq. ft.	2012	0	0	0
331-Reinforced Concrete Bridge Railing	3 - Mod.	1324	ft.	899	400	25	0
	CS2- Cracks, some leaching and some with rust stains. Missing and deteriorated anchor nuts to some railings. CS3- Delams and spalled areas.						
521-Concrete Protective Coating		10598	sq. ft.	10498	100	0	0
	CS 2: Isolated areas of faded sealer.						
815-Drainage	3 - Mod.	22	each	22	0	0	0
830-Abutment Backwall	3 - Mod.	90	ft.	80	10	0	0
	CS2- Some cracks						
521-Concrete Protective Coating		450	sq. ft.	430	0	0	20
	CS 4: Isolated areas of ineffective sealer.						

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ODOT District: District 12

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Date Built: 07/01/1961

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: I-90

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 18196 - CONCORD TWP (LAK county)

Location: DISTRICT 12

11 MI E SR615

Insp Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls over traffic- Eastbound {Lane 2- Bay 2 and 3}{Low speed berm- Bay 2} {lane 1 bay 3}

Curbs/Sidewalk (LF)

Rust stained cracks. Concrete patches.

Approach

Approach Wearing Surface (EA)

Some cracks

Approach Embankment (EA)

Erosion around guardrail posts at forward.

Approach Guardrail (EA)

Collision damage to rear-left guardrail.

Inspector Comments - General Appraisal

Superstructure

Fatigue (LF)

Welded plates at butt welds in webs.

Utilities (LF)

Areas of conduit separation including utility in bay 3 near rear slope. Rusted thru holes in utility pipes at pier 4 and at rear abutment.

Substructure

Slope Protection (EA)

Minor footer exposure at rear-right.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures