

Inspector: Lentz,Stephanie

Inspection Date: 09/04/2024

Structure Number: 3105733

Facility Carried: INDIANA & OHIO

Ohio Bridge Inspection Summary Report**HAM-00052-2664 (3105733)**2: District 15000 - CINCINNATI (HAM county)
ict
08

5A: Inventory Route 2 00052

21: Major Maint A/B 27 - Railroad /
225 Routine Main A/B 27 - Railroad /
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 087: Facility On INDIANA & OHIO
6: Feature Ints SORTA
9: Location 1.3 MI E OF IR 471
Lat, Lon 39.116878 , -84.484478

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	3 - Steel
58.01 Wearing Surface	N - Not Applicable		03 - Girder and Floorbeam System
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	4 - Poor Condition	45: Spans Main / Approach	2 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	9 - Other
60: Substructure	3 - Serious Condition	408: Composite Deck	X - Not Applicable
61: Channel	N	414A Joint Type 1	N - None
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	N - NA
67.01 GA	3		N- Not Applicable

Appraisal		422: WS Date	
Sufficiency Rating	38.0 SD/FO 1 - SD	423: WS Thick (in)	0.0
36: Rail, Tr, Gd, Term Std	N N N N	482: Protective Coating	0 - Other Paint
72: Approach Alignment	4 - Meets minimum tolerable limits to be left in place as is	483: PCS Date	06/01/1960
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	0 - Other
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None

Geometric		528: Foundn: Abut Fwd	U - Unknown
48: Max Span Length (ft)	28.0	533: Foundn: Abut Rear	U - Unknown
49: Structure Length (ft)	62.0	536: Foundn: Pier 1	U - Unknown
52: Deck Width, Out-To-Out (ft)	100.0	539: Foundn: Pier 2	N - None (Such as most Culverts)
424: Deck Area (sf)	6200		
32: Appr Roadway Width (ft)	0.0		
51: Road Width, Curb-Curb (ft)	0.0		
50A: Curb/SW Width: Left (ft)	0		
50A: Curb/SW Width: Right (ft)	0		
34: Skew (deg)	0		
33: Bridge Median	0 - No median		
54B: Min Vert Underclearance (ft)	14.3		
336A: Min Vert Clrnce IR Cardinal (ft)	14.3		
336B: Min V Clr IR Non-Cardinal (ft)	14.3		
578: Culvert Length (ft)	0		

Load Posting		Age and Service	
41: Op/Post/Closed	A - Open	27: Year Built/ 106 Rehab	1914 / 0000
70: Posting		42A: Service On	2 - Railroad
70.01: Date		42B: Service Under	1 - Highway, with or w/out pedestrian
70.02: Sign Type		28A: Lanes on	00
734: Percent Legal (%)	0	28B: Lanes Under	02
704: Analysis Date	07/01/1900	19: Bypass Length	0
63: Analysis Method	5 - No rating analysis or evaluation performed	29: ADT	9974
		109: % Trucks (%)	5

Inspections		
	Months	
90: Routine Insp.	12	09/04/2024
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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ODOT District: District 08

HAM-00052-2664 _(3105733)

Date Built: 07/01/1914

Major Maint: 27 - Railroad

Facility Carried: INDIANA & OHIO

Traffic On: 2 - Railroad

Rehab Date:

Routine Maint: 27 - Railroad

Feature Inters: SORTA

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 15000 - CINCINNATI (HAM county)

Location: DISTRICT 08

1.3 MI E OF IR 471

Insp
Resp B:

Inspector

Lentz,Stephanie

Inspection Date 09/04/2024

Reviewer Collett,Brandon

Inspector Comments - Deck and Approach

Deck

Floor/Slab

Rust to plates in areas of leakage.

Bridge Railing

Rust with LOS, some bracing missing, 2 sections missing in metal rail, replaced with cable.
Cracking/delams/spalls in concrete base.

Drainage

Approach

Approach Embankment

Note: Manhole 8' from right forward railing end post has cover missing. Left rear adjacent wing wall catch basin with clogged grate. Area at left rear with embankment and water washing over wall down to pavement. Left catch basin grate under structure is clogged with debris and mud.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders

Rust, corrosion throughout girders with heavier, flaking rust mainly along lower flanges. Few scrapes to bottom flanges with broken splice plates in top of both girders. Several rivets broken or with LOS. Heavy layered rust along top of exterior lower flange, this extends into stiffeners, some areas and bottom of stiffeners with complete loss of section.

Floor Beams

Moderate rust to all floor beams with heavier rust in areas of leakage. Some pack rust between plates of beams with minor distortion visible. Some LOS at ends over abutments.

Bearings Devices

Rust to heavy and pack rust to bearings, debris and ballast has collected around several.

Fatigue

No live load at time of inspection in 2024; only 1 of three original train tracks show sign of use.

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Protective Coating System

Up to 90% of paint on girders, floor beams and steel pier has failed. Corrosion, heavy pack rust and areas of complete loss of section to exterior faces of girders

Substructure

Abutments

Vertical, horizontal and diagonal cracks rear and fwd., heavy efflor. to several. Left rear and fwd. areas have heavier/map cracking with deterioration and staining. Several areas of spalls.

Pier Columns/Bents

Rust and corrosion to columns. All columns have areas of section loss at top of concrete barrier with small areas of complete section loss, thinning of steel. Pack rust has caused upper sections of concrete barrier to spall, exposing column. Some collision damage column flanges. ***Reviewer: Review of 2021 inspection report/photos at least columns are severely deteriorated to the point the load path of the piers is affected. The extent of the deterioration cannot be fully determined at any of the columns due to excessive packrust at the column to concrete interface. Reviewer lowered the pier rating to a 3, serious condition.

Pier Caps

Corrosion throughout cap, with some pack rust between plates on exterior faces, causing some distortion. 2024; South side of pier, 3 areas were noticed where top plate of cap has pack rust and moving plates upward at possible joint, one appears to have crack in top plate.

Backwalls

Cracking and efflors.

Wingwalls

Deterioration/shallow spalls and scaling of concrete, efflor. buildup and random horizontal and vertical cracking.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

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Scour Critical

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Bridge Inspection Report

Pictures