

Inspector: Harding,Rich
 Inspection Date: 05/04/2023

Structure Number: 7001517
 Facility Carried: T-289 REED ROAD

Ohio Bridge Inspection Summary Report

RIC-00030-1642 (7001517)

2: District 50092 - MIFFLIN TWP (RIC county)
 ict
 03
 21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 03 - Town or Township Highway /
 Agency
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 03

5A: Inventory Route 1 00289
 7: Facility On T-289 REED ROAD
 6: Feature Ints OVER RIC-030 -1638
 9: Location 2.34 MILES EAST OF US 42
 Lat, Lon 40.778542 , -82.426928

Condition

58: Deck 7 - Good Condition
 58.01 Wearing Surface 7 - Good (1% distress)
 58.02 Joint 6- Satisfactory (isolated leaking)
59: Superstructure 7 - Good Condition
 59.01 Paint & PCS 7 - Good (1-5% corr.)
60: Substructure 7 - Good Condition
61: Channel N
61.01 Scour N - Not Applicable
62: Culverts N - Not Applicable

67.01 GA 7

Appraisal

Sufficiency Rating 96.0 SD/FO 2 - FO
 36: Rail, Tr, Gd, Term Std 1 0 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) 89.0
 49: Structure Length (ft) 290.0
 52: Deck Width, Out-To-Out (ft) 46.0
 424: Deck Area (sf) 13340
 32: Appr Roadway Width (ft) 44.0
 51: Road Width, Curb-Curb (ft) 42.5
 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) 14.5
 336A: Min Vert Clrnce IR Cardinal (ft) 99
 336B: Min V Clr IR Non-Cardinal (ft) 0
 578: Culvert Length (ft) 0

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 (%) 110
 704: Analysis Date 02/25/2019
 63: Analysis Method 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Structure Type

43: Bridge Type 4 - Steel continuous
 02 - Stringer/Multi-beam or Girder
 N- Not Applicable
 45: Spans Main / Approach 4 / 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
 422: WS Date 01/01/1977
 423: WS Thick (in) 1.2
 482: Protective Coating 5 - Paint System OZEU
 483: PCS Date 08/27/1996
 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 1 - Steel H Piles (Other size)
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Age and Service

27: Year Built/ 106 Rehab 1977 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 1 - Highway, with or w/out pedestrian
 28A: Lanes on 02
 28B: Lanes Under 06
 19: Bypass Length 0
 29: ADT 2227
 109: % Trucks (%) 5

Inspections

	Months	
90: Routine Insp.	24	05/04/2023
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.	13340	sq. ft.	12931	328	81	0
<p>CS2-2021 Scattered trans. hairlines & cracks, some w/ effl. & minor to moderate sat. areas areas starting to dry out.</p> <p>CS3-2021 Span #3 along top flange of lt. fascia beam (full length): Spalled area (some deep) w/ areas of exposed resteel along inside edge (Sealed w/ repair Proj.</p>							
521-Concrete Protective Coating		1160	sq. ft.	1160	0	0	0
805-Wearing Surface - Monolithic Concrete		12325	sq. ft.	12100	225	0	0
<p>CS2-2021 Scattered trans. cracks & hairlines.; both fwd. & rear @ deck ends along expan. joints: small delam.</p>							
107-Steel Open Girder/Beam	3 - Mod.	1740	ft.	1720	20	0	0
<p>CS2-2021 2020, Beam 1,2,3 w.b. lane damage from overheight load. 2019 Lt. fascia beam over WB driving lane damaged from overheight load - Repaired w/ Proj.# 7036 (19) - Several scrapes & a few gouges along bottom flange of lt. fascia beam over wb driving plus a few scrapes on bottom flange of beam #2 - 2014 Repair Proj.#8014 (14) for span #3 - Previously lt. fascia beam w/ lt. sweep in alignment over both WB driving, passing, & ramp lanes w/ slight twist in bottom flange over driving lane (02 -'14 collision damage) - Previously span # 3, Lt. fascia beam over driving lane: bottom flange bent upward w/ slight sweep in alignment from collision damage plus multiple scrapes & scratches near same area & on next beam plus scraped area over passing lane; beams w/ small areas of minor pitting;</p>							
515-Steel Protective Coating		22416	sq. ft.	20806	1288	322	0
<p>CS2-2021 Span #3, Lt. fascia beam: Bottom flange, portions of web, & x-frames re-painted w/ repair Proj.#8014(14) & Proj.#7036(19).</p> <p>CS3-2021 New scuff & scrape marks in new paint; rust along flanges, bolted splice plate connections, & bearing</p>							
205-Reinforced Concrete Column	3 - Mod.	9	each	9	0	0	0
521-Concrete Protective Coating		1102	sq. ft.	1102	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	92	ft.	82	10	0	0
<p>CS2-2021 A few vertical hairlines / cracks; wet areas & rust staining - leakage @ expan. joint</p>							
521-Concrete Protective Coating		230	sq. ft.	230	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	138	ft.	132	6	0	0
<p>CS2-2021 Pier #1: Small delam. area on bottom of cap; a few vertical hairlines & cracks.</p>							
521-Concrete Protective Coating		2004	sq. ft.	2004	0	0	0
305-Assembly Joint without Seal	3 - Mod.	92	ft.	47	45	0	0
<p>CS2-2021 Both fwd. & rear: slight offset plus areas of rust, pitting, & minor section loss; both: 2011 rubberized joint sealer applied to open joint - uneven / poor application w/ voids & gaps in material along joints w/ leakage - fwd. w/ section of material missing.</p>							
311-Movable Bearing	3 - Mod.	25	each	17	8	0	0
<p>CS2-2021 Areas of pack rust @ abut. rockers; Pier #2, lt. bolster (fixed) bearing for lt. fascia beam: Previously sole plate w/ broken weld @ side cover plate</p>							
313-Fixed Bearing	3 - Mod.	5	each	5	0	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
321-Reinforced Concrete Approach Slab	3 - Mod.	2200	sq. ft.	2150	50	0	0
CS2-2021 Rear: Newer asphalt resurfacing - Fwd.: Some scattered cracks.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	580	ft.	480	100	0	0
CS2-2021 Both epoxy sealed w/ proj.; scattered hairlines, most along toe of parapet; fwd.: one spalled area in top of parapet.							
521-Concrete Protective Coating		3671	sq. ft.	3671	0	0	0
815-Drainage	3 - Mod.	12	each	12	0	0	0
830-Abutment Backwall	3 - Mod.	92	ft.	63	20	9	0
CS2-2021 Both fwd.& rear tops @ w.s. w/ a couple small areas cracked & breaking up; Both tops @ w.s.: previous concrete repairs w/ Proj. CS3-2021 Areas w/ delam., spalls, & rust staining on vertical face;							

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ODOT District: District 03

RIC-00030-1642 _(7001517)

Date Built: 07/01/1977

Major Maint: 01 - State Highway Agency

Facility Carried: T-289 REED ROAD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 03 - Town or Township Highway Agency

Feature Inters: OVER RIC-030 -1638

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 50092 - MIFFLIN TWP (RIC county)

Location: DISTRICT 03

2.34 MILES EAST OF US 42

Insp Resp B:

Inspector

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Inspection Date 05/04/2023

Reviewer Kapustar, Kent

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Edge of Floor/Slab (LF)

Both fascia & bottom edges epoxy sealed w/ 2011 proj..

Bridge Wearing Surface (SF)

Bridge Railing (LF)

Both epoxy sealed w/ proj.; scattered hairlines, most along toe of parapet; fwd.: one spalled area in top of parapet.

Deck Drainage (EA)

All scuppers clean.

Expansion Joint (LF)

Both fwd. & rear: slight offset plus areas of rust, pitting, & minor section loss; both: 2011 rubberized joint sealer applied to open joint - uneven / poor application w/ voids & gaps in material along joints w/ leakage - fwd. w/ section of material missing.

Approach

Approach Wearing Surface (EA)

2020 Rear w/ newer asphalt resurfacing - Fwd. w/ some scattered cracks; 2018 New asphalt resurfacing; 2011 partial new asphalt resurfacing w/ proj.- both fwd. & rear w/ a few scattered cracks; both fwd. & rear: approx. 6' wide concrete shoulders added w/ proj.#514(10).

Approach Slab (SF)

2020 Rear: Newer asphalt resurfacing - Fwd.: Some scattered cracks; 2018 New asphalt resurfacing; both: 2011 new concrete repair @ jct. w/ top of backwall plus new asphalt overlay - a few scattered cracks.

Approach Guardrail (EA)

2020 Fwd. rt. & lt. plus rear rt. w/ collision damage & a few rotten & broken posts.

Inspector Comments - General Appraisal

Superstructure

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Superstructure Alignment (EA)

Beams/Girders (LF)

2020, 2019 Lt. fascia beam over WB driving lane damaged from overheight load - Repaired w/ Proj.# 7036(19) - Several scrapes & a few gouges along bottom flange of lt. fascia beam over wb driving plus a few scrapes on bottom flange of beam #2 - 2014 Repair Proj.#8014(14) for span #3 - Previously lt. fascia beam w/ lt. sweep in alignment over both WB driving, passing, & ramp lanes w/ slight twist in bottom flange over driving lane (02-'14 collision damage) - Previously span #3, Lt. fascia beam over driving lane: bottom flange bent upward w/ slight sweep in alignment from collision damage plus multiple scrapes & scratches near same area & on next beam plus scraped area over passing lane; beams w/ small areas of minor pitting; 2008 nbis qar decal #03-0014 attached to web of inside face of rt. fascia beam @ fwd. end.

Diaphragm/X-Frames (EA)

2019 X-frames w/ broken welds @ impact area of bridge hit - Repaired w/ Proj.#7036(19); Span #3, bay #1 along lt. fascia beam: Previously all x-frame welds broken plus missing bottom angle over wb driving lane - repaired w/ Proj.#8014(14).

Bearing Devices (EA)

Areas of pack rust @ abut. rockers; Pier #2, lt. bolster (fixed) bearing for lt. fascia beam: Previously sole plate w/ broken weld @ side cover plate - repaired w/ Proj.#8014(14).

Protective Coating System (LF)

Span #3, Lt. fascia beam: Bottom flange, portions of web, & x-frames re-painted w/ repair Proj.#8014 (14) & Proj.#7036(19) - 2020 New scuff & scrape marks in new paint; rust along flanges, bolted splice plate connections, & bearings.

Substructure

Abutment Walls (LF)

A few vertical hairlines / cracks; wet areas & rust staining - leakage @ expan. joint.

Pier Caps (LF)

Pier #1: Small delam. area on bottom of cap; a few vertical hairlines & cracks.

Pier Columns/Bents (EA)

Pier #1: lt. column @ splash line w/ previous vertical cracks, delam. areas, & sat.- concrete repairs w/ 2011 proj..

Backwalls (LF)

Areas w/ delam., spalls, & rust staining on vertical face; Both fwd. & rear tops @ w.s. w/ a couple small areas cracked & breaking up; Both tops @ w.s.: previous concrete repairs w/ Proj..

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures