

Inspector: Osting,Matthew

Inspection Date: 08/06/2024

Structure Number: 2504308

Facility Carried: WILSON RD

Ohio Bridge Inspection Summary Report**FRA-00070-0794 (2504308)**2: District 18000 - COLUMBUS (DEL & FRA county)
ict
06

5A: Inventory Route 1 C0025

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 067: Facility On WILSON RD
6: Feature Ints IR-70
9: Location 1.04 MI E OF I-270
Lat, Lon 39.9744119304 ,-83.0997173291

Condition		Structure Type	
58: Deck	9 - Excellent Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	8 - Very Good (isolated or minor problems)		02 - Stringer/Multi-beam or Girder
58.02 Joint	7- Good (no leaking)		N- Not Applicable
59: Superstructure	5 - Fair Condition	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	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 5

Appraisal		422: WS Date	07/01/2018
Sufficiency Rating	92.8 SD/FO 2 - FO	423: WS Thick (in)	2
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	5 - Paint System OZEU
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	08/11/1995
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	2 - Rockers & Bolsters
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	B - Fixed
Geometric		528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
48: Max Span Length (ft)	117.0	533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
49: Structure Length (ft)	367.7	536: Foundn: Pier 1	N - None (Such as most Culverts)
52: Deck Width, Out-To-Out (ft)	79.0	539: Foundn: Pier 2	N - None (Such as most Culverts)
424: Deck Area (sf)	29048.3		
32: Appr Roadway Width (ft)	70.0		
51: Road Width, Curb-Curb (ft)	70.0		
50A: Curb/SW Width: Left (ft)	5		
50A: Curb/SW Width: Right (ft)	0		
34: Skew (deg)	35		
33: Bridge Median	1 - Open median		
54B: Min Vert Underclearance (ft)	15.08		
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	1973 / 2018
42A: Service On	5 - Highway-pedestrian
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	04
28B: Lanes Under	10
19: Bypass Length	2
29: ADT	4554
109: % Trucks (%)	3
Inspections	
90: Routine Insp.	Months 12 08/06/2024
92A: FCM Insp.	N 0
92B: Dive Insp.	N 0
92C: Special Insp.	Y 0 03/10/2023
92D: UBIT Insp.	N 0
92E: Drone Insp.	N 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 (%)	150
704: Analysis Date	08/16/2024
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
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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.	29041	sq. ft.	29017	24	0	0
	2021 CS2- Rear median raised and transverse open cracks. 2023 - Floor has SIP forms CS2- Open transverse cracks Fwd&Rear full width of median, (24sf).						
805-Wearing Surface - Monolithic Concrete		19504	sq. ft.	19494	10	0	0
	2023 CS2- Minor chipping near Fwd&Rear jnts, (10sf).						
107-Steel Open Girder/Beam	3 - Mod.	2800	ft.	2660	120	20	0
	2021 CS2- Rusted at various locations of bottom flanges all spans, worse over traffic. Lt facia beam has been repaired Span2. 2021 CS3 09/14/2021 Bridge hit Impact to beam 1 span 2, impact is 33' from PS2 beam is bent roughly 16" out of alignment, (20ft). 4" tear at stiffner 8' from impact, (2 ft). 2' tear in the flange and webbing joint. 6" tear and 3 1/2" tear on each side of stiffner north of impact, (2 ft). 2023 *3-10-2023 Bridge Hit* Over EB driving lane Span 2 Beam 1 - bent stiffener (very minimal distortion to beam), bay 1- crossmembers bent and broken *Should be repaired or cut out to prevent them from working loose and breaking remaining welds. Damage to utilities need to be secured to prevent them from falling* 2023 CS2- Bottom flanges in areas throughout are rusted and appear to have minor section loss, worse over traffic in spans 2&3, (120') CS3- must rely on previous damage report, 4 lanes of traffic + ramp lane.						
515-Steel Protective Coating		30143	sq. ft.	19468	10000	450	225
	2021 CS2- Faded/ chalky paint mainly at facia beams CS3- Freckled rust developing all beams, all spans, worse at bottom flanges over traffic CS4- Paint has failed at bottom flanges all spans, worse over traffic. 2023 Same as previous inspection						
205-Reinforced Concrete Column	3 - Mod.	18	each	7	11	0	0
	2021 CS2- Patchwork failing, vertical cracking, spalls developing at splash zone PS1 Cols 1-5, PS2 Col 2, PS3 Cols 1-5 2023 Same as previous inspection						

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
215-Reinforced Concrete Abutment	3 - Mod.	193	ft.	180	13	0	0
	2023 CS2- Rear- Minor horizontal crack under bay 3, (3'). Fwd- horizontal/vert cracks in isolated areas, (10')						
234-Reinforced Concrete Pier Cap	3 - Mod.	290	ft.	286	4	0	0
	2021 CS2- Small spalls rear face PS1 Lt 2023- Light hanging from PC2 under bay 2, Fwd face CS2- Delams and shallow spalls PC1 Lt and center, (4')						
303-Assembly Joint with Seal	3 - Mod.	140	ft.	140	0	0	0
	2023 - full of debris						
311-Movable Bearing	3 - Mod.	40	each	20	20	0	0
	2021 CS2- Freckled rust developing on bearings and plates 2023 CS2- Freckled/surface rust developing at bearings and sole plates throughout, facials worse, (20).						
313-Fixed Bearing	3 - Mod.	10	each	5	5	0	0
	2021 CS2- Rust developing at facia bearings 2023 CS2- Surface rust developing at bearings 1-3,6,10 (5)						
321-Reinforced Concrete Approach Slab	3 - Mod.	2800	sq. ft.	2725	75	0	0
	2021 CS2- Longitudinal,diag cracks Fwd&Rear 2023 CS2- same as previous inspection + minor longitudinal cracks in headers, (75sf).						
331-Reinforced Concrete Bridge Railing	3 - Mod.	753	ft.	593	160	0	0
	2021 CS2- Cracks, saturated at vandal fence anchors Lt&Rt, 2x2 spall Rear Rt at bottom. 2023 CS2- Same as previous inspection plus vertical cracks throughout,(160')						
830-Abutment Backwall	3 - Mod.	193	ft.	187	6	0	0
	2023 CS2- Minor scaling in bay1 Rear, (6').						

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ODOT District: District 06

FRA-00070-0794_(2504308)

Date Built: 10/10/1973

Major Maint: 01 - State Highway Agency

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Traffic On: 5 - Highway-pedestrian

Rehab Date: 07/01/2018

Routine Maint: 01 - State Highway Agency

Feature Inters: IR-70

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

Insp. 01 - State Highway Agency

FIPS Code: 18000 - COLUMBUS (DEL & FRA county)

Location: DISTRICT 06

1.04 MI E OF I-270

Insp

Resp B:

Inspector

Osting,Matthew

Inspection Date 08/06/2024

Reviewer Hayes,Edmund

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

STAY IN PLACE FORMS NEW 2018

Bridge Wearing Surface (SF)

NEW 2018

Curbs/Sidewalk (LF)

SIDEWALK LT.

Bridge Median (LF)

/MAP CRACKS,PAINT PEELING.

Bridge Railing (LF)

VERT.AND HORZ.SEEPIG CRACKS THRU-OUT.,VANDAL FENCE.,RT. PARAPET OUTSIDE FACE SEALANT CHIPPING OFF.

Deck Drainage (EA)

DOWNSPOUT PIPE UNHOOKED RT.FWD.AT PIER. SEVERAL PLUGGED.

Expansion Joint (LF)

FULLY CLOGGED

Approach

Approach Wearing Surface (EA)

OPEN CRACKS BREAKING UP FWD AT SLABS

Approach Guardrail (EA)

/LT.REAR CHIP OFF OF END,VERT.CRACKS IN PARAPET. HORZ.CRACKING ALONG TOP EDGE

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

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RUSTED ON THE BOTTOM FLANGES AND AT THE STIFFINERS AND WEB AREA OF THE FASCIA BEAMS. 1. At approximately 4PM on 9/5/18 a trash truck struck the Wilson Rd over IR 70 bridge, damaging several beams on the west edge over EB 70. The SB outside lane of Wilson Rd is closed to prevent live load from reaching the damaged fascia beam, which has cracks. Other interior beams are bent from the impact. 8/30/19 REPAIRS HAVE BEEN MADE TO FIX BEAMS FROM HIT MENTIONED ABOVE. BEAMS 8 AND 10 (FASCIA) HAVE HAD NEW SECTIONS OF BEAM WELDED IN OVER I70 EB. BOTH DIRECTIONS ARE OPEN ON TOP. THERE IS EVIDENCE OF A NEW SCRAPE ON BOTTOM FLANGE OF BEAM 10. SEE PHOTOS ATTACHED

Diaphragm/X-Frames (EA)

/CROSSFRAMES RUSTED THRU-OUT

Bearing Devices (EA)

BASE PLATES RUSTED ON ALL FACSIA BEARINGS,ABUT.AND PIERS.

Protective Coating System (LF)

RUSTED ON THE BOTTOM FLANGES AND AT THE STIFFINERS AND WEB AREA OF THE FACSIA BEAMS. CHALKY ALL OVER AND RUST THROUGHOUT. ONLY GOOD PAINT IS ON NEW BEAM SECTIONS PUT IN

Utilities (LF)

LIGHTING.CONDUIT CORRODED,HEAVY SECTION LOSS,RUSTED.LT.FWD. CONDUIT RUSTED COMPLETELY THRU. ELEC. MH LID MISSING NEAR APROACH SLAB UNDER DECK LIGHTING

Substructure

Abutment Walls (LF)

VERT.CRACKS.

Pier Columns/Bents (EA)

COLUMN 2 PIER 2 SPALLED. ,ALL COLUMNS AT PIER 1 DELAMINATED,MAPCRACKED AT SPLASH ZONE.

Backwalls (LF)

VERT.CRACKKS LT.REAR

Culvert

Inspector Comments - Waterway

Waterway Adequacy

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Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1

Description 2024 rear abut



PHOTO 2

Description 2024 right rear

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Bridge Inspection Report

Pictures



PHOTO 3

Description 2024 It rear



PHOTO 4

Description 2024 NB lanes

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Bridge Inspection Report

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PHOTO 5

Description 2024 SB lanes



PHOTO 6

Description 2024 It joint

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Bridge Inspection Report

Pictures



PHOTO 7

Description 2024 rt joint



PHOTO 8

Description 2024 fwd abut

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Bridge Inspection Report

Pictures



PHOTO 9
Description 2024