

Inspector: Osting,Matthew
 Inspection Date: 12/14/2024

Structure Number: 2500639
 Facility Carried: FOURTH ST (US23)

Ohio Bridge Inspection Summary Report

FRA-00023-1075 (2500639)

2: District 18000 - COLUMBUS (DEL & FRA county)
 District 06

5A: Inventory Route 1 00023

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 06

7: Facility On FOURTH ST (US23)
 6: Feature Ints S 4TH ST(US-23) OVER I-7
 9: Location 1.59 MI S OF IR-670
 Lat, Lon 39.953102940 , -82.994392510

Condition	Structure Type
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58: Deck **3 - Serious Condition**
 58.01 Wearing Surface 4 - Poor (advanced)
 58.02 Joint 4- Poor (heavy leaking, offset)
59: Superstructure **3 - Serious Condition**
 59.01 Paint & PCS 1 - Failed PCS
60: Substructure **4 - Poor Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**
67.01 GA **3**

43: Bridge Type 4 - Steel continuous
 02 - Stringer/Multi-beam or Girder
 N- Not Applicable
 45: Spans Main / Approach 3 / 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 6 - Bituminous
 N- Not Applicable

Appraisal	Inspection
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Sufficiency Rating 32.0 SD/FO 1 - SD
 36: Rail, Tr, Gd, Term Std 1 N N N
 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 11/10/1980
 423: WS Thick (in) 2.0
 482: Protective Coating 1 - Red Lead
 483: PCS Date 01/01/1981
 453: Bearing Type 1 2 - Rockers & Bolsters
 455: Bearing Type 2 B - Fixed
 528: Foundn: Abut Fwd 0 - Other
 533: Foundn: Abut Rear 0 - Other
 536: Foundn: Pier 1 0 - Other
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Geometric	Age and Service
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48: Max Span Length (ft) 93.0
 49: Structure Length (ft) 214.5
 52: Deck Width, Out-To-Out (ft) 60.3
 424: Deck Area (sf) 12934.35
 32: Appr Roadway Width (ft) 70.0
 51: Road Width, Curb-Curb (ft) 38.0

27: Year Built/ 106 Rehab 1964 / 0000
 42A: Service On 6 - Overpass structure at an interchange or second level of a multilevel interchange
 42B: Service Under 1 - Highway, with or w/out pedestrian
 28A: Lanes on 03
 28B: Lanes Under 06
 19: Bypass Length 0
 29: ADT 18223
 109: % Trucks (%) 2

50A: Curb/SW Width: Left (ft) 10.1
 50A: Curb/SW Width: Right (ft) 10.1
 34: Skew (deg) 0
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 14.67
 336A: Min Vert Clrnce IR Cardinal (ft) 99
 336B: Min V Clr IR Non-Cardinal (ft) 0
 578: Culvert Length (ft) 0

Load Posting	Inspections
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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 07/01/1991
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

	Months	
90: Routine Insp.	12	12/14/2024
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	12 01/26/2024
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.	12942	sq. ft.	0	6442	6500	0
2024 Floor covered with false work. Deck edges netted. Years past floor was saturated thru out and spalls with exposed rebar.							
510-Wearing Surfaces		8151	sq. ft.	0	0	8151	0
Asphalt overlaid 2024 CS3 Open cracks,wheel rutted and pothole forming thru out.							
107-Steel Open Girder/Beam	3 - Mod.	1716	ft.	438	1000	150	128
2022 CS2 Heavy collision dmg beam 8 span 2 20 ft CS3 Rusted with section loss at beam ends fwd and rear 150 ft. 2023 same 2024 ** Special Inspection** falsework in place limits visibility of beams CS2- rust and corrosion initiated at bottom flanges and webs throughout (1000') CS3- Fwd and Rear beam ends pack rusted and section loss throughout bottom flanges and webs, (50'). Heavy rust and corrosion at bottom flanges throughout, (100') CS4- Rear beam end #8 (SE) web crushing over the bearing and bottom flange, deflection of 1inch, (4'). Beam #8 span 3 web and flange torn at mid span due to collision damage that occurred Jan 2024. This location has been temporarily supported with an additional beam placed on the deck above and secured with chains, (60'). Fwd beam end #2 has through holes in the web above the abut bearing, approx 50% section loss of the bottom flange at bearing, (3'). Rear beam end #3 approx 66% section loss at bottom flange at the abut bearing, (1'). 2024 same as listed + CS4 Span 3 beam 8 has been removed 58 ft. 12/14/2024 same + CS3 Fwd B 7 fwd heavy pack rust with section loss 11 ft. CS4 Rear B8 1 3/4" deflection in bottom flange Rear B8 3 1/2" deflection in web Rear beam 3 small thru hole 1 ft from beam end in lower web (2ft)							
515-Steel Protective Coating		14000	sq. ft.	0	0	0	14000
2022 CS4 Rusted with section loss thru out 14000 2023 same 2024 same as previous inspections							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
205-Reinforced Concrete Column	3 - Mod.	8	each	3	0	5	0
2024 CS3 PS1 C 1 spalled with exposed rebar that has section loss. PS2 columns 1-4 large spalls with exposed rebar.							
215-Reinforced Concrete Abutment	3 - Mod.	121	ft.	61	60	0	0
2024 CS2 Rear abut saturated with scaling and vert cracks thru out 60 ft.							
234-Reinforced Concrete Pier Cap	3 - Mod.	242	ft.	222	20	0	0
2024 CS2 Areas of rust staining in both piers 20 ft.							
305-Assembly Joint without Seal	3 - Mod.	121	ft.	0	0	0	121
2024 CS4 Rear broke and banging. Complete closed fwd and rear 121 ft. Over half is covered with steel plates rear.							
311-Movable Bearing	3 - Mod.	24	each	0	0	8	16
2024 CS3 Rusted with section loss 8 CS4 Rusted with section loss not moving 16 2024 **Special Report** CS3 Rusted with section loss (8) CS4 Rusted with section loss, not moving as designed, (14). Rear bearing 6&7 tilted to max, sole plate has shifted, (1). Fwd bearing #2 tilted to near max, (1). Dec 14 2024 same + Fwd bearing 2-5 tilted to max							
313-Fixed Bearing	3 - Mod.	8	each	8	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	3500	sq. ft.	3050	0	450	0
2024 CS3 Fwd and rear slab settling 3 plus inches at joint 200 sq ft. Large pothole fwd rt. CS3 Rear large open cracks and pot holes forming 250 sf							
330-Metal Bridge Railing	3 - Mod.	429	ft.	429	0	0	0
331-Reinforced Concrete Bridge Railing	3 - Mod.	429	ft.	429	0	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
815-Drainage	3 - Mod.	4	each	0	0	0	4
2023 CS4 Plugged.							
830-Abutment Backwall	3 - Mod.	121	ft.	0	0	61	60
2022 Unable to see do to false work. Leaving the same as years past. 2023 same 2024 **special report** Free flow of water through joints and failed drainage CS3- Deep spalls, deteriorating concrete, heavy saturation throughout Fwd&Rear, (61') CS4- Deep spalls and through holes, exposed rebar with section loss throughout Fwd&Rear, (60').							

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ODOT District: District 06

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Date Built: 07/01/1964

Major Maint: 01 - State Highway Agency

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Traffic On: 6 - Overpass structure at an interchange or second level of a multilevel interchange/out pedestrian

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: S 4TH ST(US-23) OVER I-7

Traffic Under: 1 - Overpass structure at an interchange or second level of a multilevel interchange/out pedestrian

Insp. Resp A: 01 - State Highway Agency

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

Location: DISTRICT 06

1.59 MI S OF IR-670

Insp Resp B:

Inspector

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Reviewer Peddicord,Tim

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

DARK SATURATED AREAS THRU-OUT, SEEPING CRACKS W/ EFFLOR,SEV. AREAS AT TOP FLANGE SPALLING THRU-OUT.,SPAN 3 BAY 3 A 2X2 AREA OF DELAMINATEDAND SPALLED OVER MIDDLE LANE OF 70 WEST BOUND NEEDS REPAIRED.DELAMINATED LOOSE CONCRETE SPAN 2 BAYS 3 AND 4 OVER RAMP TO 70 EAST BOUND NEEDS REMOVED. 2020 FALSE WORK INSTALLED OVER TRAFFIC

Edge of Floor/Slab (LF)

T,RANSVERSE CRACKING EFLOR HEAVY RT REAR 2020 NETTING INSTALLED

Bridge Wearing Surface (SF)

HEAVING AT CURB LANES ,SCUPPERS AND JNTS FULLDEPTH POTHOLES THROUGHOUT,WHEEL RUTTING . 2020 TEMP. PATCHES FAILING, POT HOLE THROUGH OUT 100SF

Curbs/Sidewalk (LF)

CURBING SPALLED TO REBAR THROUGHOUT PATCHES FAILING CONCRETE SPALLED AROUND PATCHES AND EDGES DETER.W/EXPOSED REBAR ,SIDEWALKS THE SAME. 2020 CURB EDGE REPAIRED

Deck Drainage (EA)

PLUGGED AND CLOSED DOWNSPOUTS REMOVED LT. FWD.,LT FWD MISSING SCUPPER OPEN OVER WB TRAFFIC.,BOTTOMS RUSTED W/SECTION LOSS. TEMP.DRAINAGE INSTALLED FWD 2018.

Expansion Joint (LF)

CLOSED,HEAVED REAR AND FWD.REAR PATCH WORK FAILED PLATES JUMPING NOT SECURE.WELDS BROKEN . 2020 REAR RT PLATE BANGING NOTHING SECURING IT. C/L REPAIR REAR LOOSE

Approach

Approach Wearing Surface (EA)

CRACKS REAR,BREAKINGUP WHEEL RUTTED POTHOLES FWD.

Inspector Comments - General Appraisal

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Superstructure

Beams/Girders (LF)

SEC.LOSS AT BOTTOM FLANGES AND WEB AT BEARING PADS AND BEAM ENDS THROUGHOUT. COLLISION DMG RIGHT FWD.

Diaphragm/X-Frames (EA)

/HEAVY CORROSION,SECTION LOSS

Bearing Devices (EA)

HEAVY CORROSION ,SECTION LOSS AT ABUTMENTS,RUSTED OVER PIERS. 2020 FULL TILT REARWARD REAR

Protective Coating System (LF)

SECTION LOSS BY CORROSION,RUSTED

Utilities (LF)

ASBESTOS SATURATED,FLAKING,DETER.CONDUIT MOUNTS RUSTING ,17CONDUIT PIPES UNDER DECK FULL LENGTH.

Substructure

Abutment Walls (LF)

SEATS/COVERED W/DEBRIS,CRACKS,SOME DELAM. AREAS 2020 REAR COVERED WITH DEBRIS REAR DUE TO JOINT FAILURE

Pier Columns/Bents (EA)

SPALLING W/VERTICAL CRACKS AT SPLASH ZONE FWD.SET OF PIERS. PIER 2 COLUMNS 1,2 AN3 W/REBAR EXPOSED

Backwalls (LF)

LARGE THROUGH HOLES FROM WS 5LF BREAKING UP THROUGHOUT,REPAIRS FAILED.VOIDS UNDER JNT REAR.

Slope Protection (EA)

CRACKED AND BREAKING UP SETTLED, SLIDING DOWN 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 B7 fwd



PHOTO 2

Description 2024 fwd B3

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PHOTO 3

Description 2024 fwd B4



PHOTO 4

Description 2024 fwd Bearing 5

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PHOTO 5

Description Beam 2 Fwd



PHOTO 6

Description 2024 rear beam 3 thru hole

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PHOTO 7

Description 2024 rear B 8



PHOTO 8

Description 2024 B8 1 3/4 inch deflection

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PHOTO 9

Description 2024 beam 8