

Inspector: Osting,Matthew
 Inspection Date: 01/18/2025

Structure Number: 2500817
 Facility Carried: HIGH STREET

Ohio Bridge Inspection Summary Report

FRA-0023D-0441 (2500817)

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 HIGH STREET
 6: Feature Ints S HIGH ST(US23D) OV I70
 9: Location 0.1 MI E OF FRONT ST
 Lat, Lon 39.953472 , -82.99895

Condition	
58: Deck	4 - Poor Condition
58.01 Wearing Surface	5 - Fair (10-15%, 2% asphalt patch)
58.02 Joint	4- Poor (heavy leaking, offset)
59: Superstructure	2 - Critical Condition
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)
60: Substructure	5 - Fair Condition
61: Channel	N
61.01 Scour	N - Not Applicable
62: Culverts	N - Not Applicable
67.01 GA	2

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	6 - Bituminous N- Not Applicable
422: WS Date	01/01/1980
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	N - None
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)

Appraisal	
Sufficiency Rating	77.0 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	1 N N N
72: Approach Alignment	7 - Better than present minimum criteria
113: Scour Critical	N - Not over waterway
71: Waterway Adequacy	N - Not Applicable

Geometric	
48: Max Span Length (ft)	71.5
49: Structure Length (ft)	241.5
52: Deck Width, Out-To-Out (ft)	94.6
424: Deck Area (sf)	22845.9
32: Appr Roadway Width (ft)	90.0
51: Road Width, Curb-Curb (ft)	72.0
50A: Curb/SW Width: Left (ft)	10.1
50A: Curb/SW Width: Right (ft)	10.1
34: Skew (deg)	3
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	21.92
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	1964 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	06
28B: Lanes Under	06
19: Bypass Length	0
29: ADT	5851
109: % Trucks (%)	7

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	07/01/1998
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	01/18/2025
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.	22842	sq. ft.	22	22820	0	0
<p>2020 CS2 False works added over all lanes of traffic. Span 1 bays 1,2,4,6,7,8,9 large areas of saturation. 2021 Same as 2020</p> <p>2022 Unable to see spans 1-3 due to false work, edge of deck/concrete railing covered with netting spans 1-3 Lt&Rt. 2024 same</p>							
510-Wearing Surfaces		17388	sq. ft.	0	17288	100	0
<p>2020 Breaking up with potholes forming, open cracks,deter wearing surface and wheel rutting thru out. 2021 Same as 2020</p> <p>2022 CS2- Same as previous inspection. CS3- Potholes forming throughout, large open web cracks, deep rutting worse at Rear Lt near jnt. (100 sq ft) 2023 same /2024 same</p>							
107-Steel Open Girder/Beam	3 - Mod.	2415	ft.	2150	0	254	11
<p>2020 CS3 rear beams 2,11 with heavy rust and section loss. Cant see the fwd beam ends on account of false work. 2021 Same 2022- same as previous inspection plus CS3- Beam 2 bottom flange heavy rust full length. 2024 CS3 pack rust, section loss b2&11 fwd, CS4 b1 rear heavy section loss in web and appears to be distorted 3' 1/18/2024 CS3 Rear beams rusting with minor section loss CS4 Rear B1 crushing in the web, heavy section loss at flange and beam end. There is a 3 1/2 deflection in the bottom. The worst deflect is 31" from back wall 4 ft. Rear B2 has a 2" deflection in bottom flange 3 ft. Rear B9 rusted with heavy section loss 2 ft. Rear B11 rusted with heavy section loss and a thru hole 2 ft.</p>							
515-Steel Protective Coating		19803	sq. ft.	14	14839	4950	0
<p>2020 CS2 flaking off with rust thru out. CS3 section loss in numerous areas thru out. 2021 Same 2024 same</p>							
205-Reinforced Concrete Column	3 - Mod.	24	each	9	1	14	0

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<p>2020 CS2 PS1 columns 1-6 all spalled with exposed rebar. PS2 5,6,8 spalled with exposed rebar. PS3 columns 2,3,4,5 spalled with exposed rebar. All exposed rebar has had a protected paint added.</p> <p>2021 PS3 columns 1,2,3,4,5 spalled with exposed rebar. PS2 columns 2,5,6, and 8 spalled with exposed rebar. PS1 columns ,2,3,4,5 spalled with exposed rebar.</p> <p>2022 CS2- PS3 Col 7 spall spall CS3- PS1 Cols 2-5 large spalls with exposed rebar with section loss. PS2 Cols 2,5,6,8 spalled with exposed rebar.PS3 Cols 1-6 spalled with exposed rebar 2023 same/2024 same</p>							
215-Reinforced Concrete Abutment	3 - Mod.	189	ft.	165	24	0	0
<p>2020 CS2 fwd spalled at center with exposed rebar which has been sealed with paint,long diag cracks lt fwd. Rear spalled under bay 4.</p> <p>2021 Fwd spalled under bay 4, 5 ft. Rear spalled under bays 7 and 8 with exposed rear that has been sealed 10 ft. Rear spalled under bay 2, 3 ft. Diag cracks rear rt 6 ft. 2022- same as previous inspection 2023 same /2024 same</p>							
234-Reinforced Concrete Pier Cap	3 - Mod.	284	ft.	284	0	0	0
305-Assembly Joint without Seal	3 - Mod.	190	ft.	0	0	0	190
<p>2020 CS4 leaking over bay 7 fwd, totally closed and not performing as designed.</p> <p>2022 CS4- Same as previous inspection + thru holes at jnt Rear Lt in curb and sidewalk. Jnt armor is broken, near thru hole in approach slab (1'x3') in driving lane Rear Rt 2023 same Steel plate over thru hole right rear. 2024 same</p>							
311-Movable Bearing	3 - Mod.	48	each	15	12	13	8
<p>2020 CS3 rear bearing 2,4,5,6 and 11 all titled with section loss. CS2 all fwd bearing rusted.</p> <p>2021 CS2 All rear bearing rusted 12 total. CS3 Fwd bearing 2,4,5,6 and 11, rusted with section loss.</p> <p>2022 CS2- Rear bearings 3-5,8-10 rusted. Fwd bearings 1,3,8,9,10,12 rusted. CS3 Rear bearings 3-5,12 heavy pack rust. Fwd bearings 2,4-7,11 heavy pack rust,11 tilted to max. 2023 same/2024 same 1/18/25 special CS4 Rear bearing 1,2,6,7,8-11 heavy section loss at tilted back to the max (8)</p>							

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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.	12	each	0	12	0	0
2021 CS2 All fixed are rusted /2024 same							
321-Reinforced Concrete Approach Slab	3 - Mod.	4500	sq. ft.	2847	1650	0	3
2021 CS2 Rear open cracks and heaved up just before joint, 150 sq ft. Fwd large open cracks thru out 1500 sq ft. 2022 Same as previous inspection. CS4- 3'x1' near thru hole at Rear Rt jnt above bay8 2024 same							
331-Reinforced Concrete Bridge Railing	3 - Mod.	483	ft.	483	0	0	0
2020 Lt fwd sidewalk spalled with thru hole. 2022- Rear Lt sidewalk has 6"x 1' thru hole with cone to warn ped traffic. Spans 1-3 Lt&Rt have netting installed							
815-Drainage	3 - Mod.	16	each	0	0	0	16
2020 all pipes rusted with heavy section loss, totally plugged. 2021 Same							
830-Abutment Backwall	3 - Mod.	189	ft.	160	21	8	0
2020 CS2 rt fwd with exposed rebar, sealed with epoxy. 2021 rear lt spalled with exposed rebar 8 ft. Spalled bays 4 and 5 10 ft. Spalled bay 9, 3 ft. 2023 same + CS3 Fwd behind beam 2&12 spalled with exposed rebar that has section loss 8ft (causing beam ends to rust from water saturation) 2024 same							

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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: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: S HIGH ST(US23D) OV I70

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

Insp. Resp A: 01 - State Highway Agency

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

Location: DISTRICT 06

0.1 MI E OF FRONT ST

Insp Resp B:

Inspector

Osting,Matthew

Inspection Date 01/18/2025

Reviewer Not Approved

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

SEEPING CRACKS,DARK AREAS,SAT.AREAS THRU-OUT/CENTER LANE CENTER STRUC.SM.SPALL/SPALLED AREAS AT TOP FLANGES. CANT SEE THE FLOOR BECAUSE NO FALSE WORK 2018.

Edge of Floor/Slab (LF)

SEEPING W/EFFLOR LT FWD.

Bridge Wearing Surface (SF)

CRACKS,DRAIN RUNS FULL LENGTH DOWN MIDDLE OF BRIDGE,ASPHALT BREAKING UP AT MID SPAN.,WHEEL RUTTED C/L FWD.

Curbs/Sidewalk (LF)

POP OUTS THRU-OUT RT.AND LT.,A2X3 DELAM AREA LT.FWD.

Deck Drainage (EA)

LG.DRAIN PIPES RUSTED THRU,CORROSION FLAKING OFF OVER TRAFFIC/PLUGGED**NEEDS REMOVED OVER EB OFF RAMP TO 3RD.ST. **ALL SCUPPERS PLUGGED

Expansion Joint (LF)

100% CLOSED REAR AND FWD.,BACKWALL BROKE AROUND JT.REAR AND FWD.

Approach

Approach Wearing Surface (EA)

WHEEL RUTTED REAR AND FWD W/OPEN CRACKS.

Approach Slab (SF)

COVERED W/ASPHALT. BREAKING UP AT THE JOINT.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

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RT.FWD., RUSTED,CORROSION,PAC RUST,HEAVY SECTION LOSS W/THRU HOLES AT DECK ENDS.,BEAM 11 RUSTED W/SECTION LOSS FULL LENGTH.

Diaphragm/X-Frames (EA)

PACK RUST,DETER.,RUSTED THRU AT DECK ENDS.

Bearing Devices (EA)

CORRODED.,SECTION LOSS, SIDE PLATE ON ROCKER BROKEN LT REAR.

Protective Coating System (LF)

HEAVY CORROSION,PEELING,CHIPPING

Fatigue (LF)

WELDED MOMENT PLATES.

Utilities (LF)

LIGHT POLE ON DECK.,LIGHTING ON PIER CAPS UNDER DECK..CONDUIT RUNS ENTIRE LENGTH RT.ASBESTOS PIPE AND BOARD/LIGHT FOUNDATION RT. DETER.OVER FAR LT.LANE

Substructure

Abutment Walls (LF)

LG.CRACKS/ FRAC.CRACK LT. FWD/CENTER HEAVY SEEPING .,SPALLED C/L REAR AND FWD.

Pier Caps (LF)

SMALL SPALL AT C/L

Pier Columns/Bents (EA)

PIER COLUMNS SPALLED W. EXP REBAR FWD,REAR AND CENTER.

Backwalls (LF)

BREAKING UP W. EXP REBAR.,HEAVY SPALL LT. FWD AND CENTER FWD.& RT. REAR,COMPLETELY LOOSE FROM JTS ,THRU HOLES FWD.C/L AND ON EACH CORNER FWD.

Wingwalls (EA)

CRACKS,REAR SEEPING

Slope Protection (EA)

BREAKING UP UNDER DOWNSPOUTS RT.REAR,UNDERMINED. (12SF)

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1

Description 2025 rear B1 deflection



PHOTO 2

Description 2025 B1 rear

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PHOTO 3

Description 2025 bearing 1 rear



PHOTO 4

Description 2025 rear B1 thru hole at bottom of web

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PHOTO 5

Description 2025 rear beam 1 thru hole



PHOTO 6

Description 2025 B1 crushing

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Bridge Inspection Report

Pictures



PHOTO 7

Description 2025 rear b1 web crushing at beam



PHOTO 8

Description 2025* beam 2, has a 2" deflection 16" out from back wall.
g..

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Bridge Inspection Report

Pictures



PHOTO 9

Description 2025 bay 2/scupper failed



PHOTO 10

Description 2025 rear bearings 6,7 tilted to max

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Bridge Inspection Report

Pictures



PHOTO 11

Description 2025 rear beam 11 thru hole