

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

Structure Number: 2504596
 Facility Carried: THIRD ST

Ohio Bridge Inspection Summary Report

FRA-00033-1747 (2504596)

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

5A: Inventory Route 1 00033

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 THIRD ST
 6: Feature Ints S 3RD (US-33) OVER I-70
 9: Location 0.82 E OF SR 3
 Lat, Lon 39.953481415 ,-82.996248894

Condition	
58: Deck	5 - Fair Condition
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	3- Serious (local failures possible)
59: Superstructure	3 - Serious Condition
59.01 Paint & PCS	2 - Critical PCS (30-40% corr.)
60: Substructure	5 - Fair Condition
61: Channel	N
61.01 Scour	N - Not Applicable
62: Culverts	N - Not Applicable
67.01 GA	3

Structure Type	
43: Bridge Type	4 - Steel continuous 02 - Stringer/Multi-beam or Girder N- Not Applicable
45: Spans Main / Approach	2 / 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	01/01/1977
423: WS Thick (in)	2.0
482: Protective Coating	1 - Red Lead
483: PCS Date	01/01/1981
453: Bearing Type 1	3 - Sliding (Bronze)
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
536: Foundn: Pier 1	4 - Spread Footing (on soil)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Appraisal	
Sufficiency Rating	27.9 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	1 1 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)	61.0
49: Structure Length (ft)	126.5
52: Deck Width, Out-To-Out (ft)	68.3
424: Deck Area (sf)	8639.95
32: Appr Roadway Width (ft)	54.0
51: Road Width, Curb-Curb (ft)	54.0
50A: Curb/SW Width: Left (ft)	10.2
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	0
33: Bridge Median	1 - Open median
54B: Min Vert Underclearance (ft)	14.0
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	1963 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	04
28B: Lanes Under	06
19: Bypass Length	1
29: ADT	9065
109: % Trucks (%)	5

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 (%)	100
704: Analysis Date	03/25/2019
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspections			
		Months	
90: Routine Insp.		12	
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.	8633	sq. ft.	6977	750	606	300
2021 Can't see the floor because of false work. Also netting on edges. 2022 Same as 21 2023 Same as 2021 CS3 Fwd & Rear @ abuts - saturated w/ heavy efflor 80 SF CS4 Rear LT - deck removed from collision damage 300 SF							
510-Wearing Surfaces		6831	sq. ft.	5517	1000	14	300
2021 Open crack and pot holes forming in asphalt over lay 1500 sq ft. 2022 CS3 Large open cracks and breaking up thru out 3000 sq ft. 2023 RT side - CLOSED TO TRAFFIC CS3 LT @ midspan - pothole 4 SF CS4 Rear LT - deck removed from collision damage 300 SF 2024 same + CS2 Rt two lanes closed to traffic open cracks thru out 1000 sf. CS3 Lt fwd 3 pot holes forming 10 sf							
107-Steel Open Girder/Beam	3 - Mod.	1518	ft.	958	150	270	140

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<p>2021 CS4 Beam 1 and Beam 4 sustained impact on July 6, 2021. Cracks in beam 1 at 32' from south abutment and tear/cracks in beam 4 32' from south abutment above EB traffic.</p> <p>2022 Same as 21+ CS4 60' of LT facia beam has been removed</p> <p>2023 CS3 RT & LT facia beam bottom flanges m @ abuts - heavy rust w/ section loss 80' CS4) to 43 B11 @ Fwd & Rear Abut - starting to crush (minor deformation) 5'</p> <p>2024 -** Special Inspection** CS2 All Beams - rust w/ minor pitting 150' CS3 Beam ends @ Fwd & Rear Abuts - saturated due to failed joint & drainage, heavy section loss w/ pitting & pack rust 80' Bottom Flanges - heavy pack rust w/ pitting & corrosion thru out 190' CS4 B2 @ Rear Abut - heavy section loss w/ minor thru hole 1' Span 1 LT facia beam has been removed (collision damage) 60' Span 1 B4 (midspan) - partial bottom flange removed (collision damage) approx 12' B11 @ Fwd Abut (NE)- heavy section loss aprox. 3/4" deflection @ bottom flange , w/ approx 50% section loss to bottom flange over bearing, thru holes in web in compression zone over bearing 4' (see attached photos) B11 @ Rear Abut (SE) - heavy section loss aprox. 3/8" deflection @ bottom flange, w/ approx 50% section loss to bottom flange bearing, thru holes in web in compression zone over bearing 3' (see attached photos) 2024 routine inspection same as above + CS4 Beam 11 in span 2 has been removed 60 ft.</p> <p>1/18/2025 special inspection CS4 Beam 2 (SW) multiple thru holes in web above abutment bearing (2" size holes) Heavy section loss at beam end 6' in length. Bottom flange thickness 1/2" Beam 11 @ (SE) Rear abutment- heavy section loss. Deflection has grown to 9/16" @ bottom flange. 50% section loss of bottom flange. Thru hole completely though the web above abutment bearing.</p>							
515-Steel Protective Coating	12447	sq. ft.	0	3105	6227	3115	
<p>2022 CS3 Rusted with minor section loss thru out.</p> <p>2023 CS3 Rusted with minor section loss thru out.</p> <p>CS4 Heavy rust thru out w/ section loss</p>							
205-Reinforced Concrete Column	3 - Mod.	6	each	2	2	2	0
<p>2021 CS2 Spalled columns with exposed rebar, columns 2-4.</p> <p>2022 CS2 Columns 2-4 spalled with exposed rebar CS3 Column 5 large spall exposed rebar that has section loss.</p> <p>2023 CS2 Col. 3 & 5 - spall w/ exposed rebar CS3 Col. 2 & 4 - large spalls w/ exposed rebar w/ section loss 2024 same as previous inspections</p>							

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215-Reinforced Concrete Abutment	3 - Mod.	137	ft.	135	2	0	0
	2023 CS2 Fwd @ B1 - delam 2'						
234-Reinforced Concrete Pier Cap	3 - Mod.	69	ft.	64	5	0	0
	2021 CS2 Spalled rear and fwd side middle of cap. 2022 Spalled rear and fwd middle of cap 5ft. 2023 CS3 Cap (middle)- saturated w/ heavy efflor spalled w/ rust staining 5' 2024 same as previous inspections						
305-Assembly Joint without Seal	3 - Mod.	108	ft.	0	0	0	108
	2021 CS4 Closed fwd and rear. Fwd joint has went over top of header side of joint. 2023 - Same as 2021 2024 CS4 Rear & fwd joint completely closed 108 ft.						
311-Movable Bearing	3 - Mod.	33	each	0	0	33	0
	2021 can't see 2022 CS3 Rusted with section loss						
331-Reinforced Concrete Bridge Railing	3 - Mod.	253	ft.	253	0	0	0
815-Drainage	3 - Mod.	4	each	0	0	0	4
	2021 CS4 Rusted not working as designed. 2023 - Same as 2021						
830-Abutment Backwall	3 - Mod.	137	ft.	0	81	50	6
	2021 Can't see because of false work. 2022 Same 2023 - Same as 2021 2024 -** Special Inspection** CS2- Rear beams 6-10 contacting backwall (8sf). Saturation full width due free flow of water through joints and failing drainage (73). CS3 Fwd & Rear - saturated deter concrete, spalled w/ exposed rebar w/ section loss 50' CS4 Rear bay 2 & 3 - deter concrete spalling, multiple exposed rebar w/ section loss & holes thru backwall 6'						

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ODOT District: District 06

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Date Built: 07/01/1963

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 3RD (US-33) OVER I-70

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

0.82 E OF SR 3

Insp Resp B:

Inspector

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Reviewer Not Approved

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

SATURATED AREAS THRU-OUT /SPALLS ALONG TOP FLANGES THRU-OUT FWD WORSE. 2020 FALSE WORK IN PLACE CANT SEE THE FLOOR.

Edge of Floor/Slab (LF)

EDGES SPALLED, SEEPING CRACKS WITH EFFLOR. LAMP POST SPALLED WITH EXPOSED REBAR. 2020 SAFETY NETTING ADDED CANT SEE THE EDGE CLEARLY. EVIDENCE OF SEEPAGE AND EFFLOR ON NETTING.

Bridge Wearing Surface (SF)

OPEN CRACKS, SPALL STARTING REAR. 2020 WET OPEN CRACKS THRU OUT, ASPHALT STARTING TO DETER.

Curbs/Sidewalk (LF)

LT.CURBINGS BREAKING UP AT JTS. RIGHT SPALLING

Deck Drainage (EA)

DOWNSPOUTS RUSTED THRU-.,LG PIECES FALLING OFF.,PLUGGED/WATER RELEASED AT BEAMS

Expansion Joint (LF)

JTS. CLOSED NOT FUNCTIONING

Approach

Approach Wearing Surface (EA)

/BREAKING UP AT JTS REAR AND FWD.,POT HOLE LT.FWD. /RT FWD SIDEWALK SETTLED AT JT. 2PLUS INS. UNEVEN.

Approach Guardrail (EA)

/RT.REAR DMG, POST BROKER RT FWD PARPET DAMAGED FRACTURED AT ASSEMBLY MOUNT JERSEY BARRIER IN PLACE

Inspector Comments - General Appraisal

Superstructure

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Beams/Girders (LF)

BEAMS HAVE HAD REPAIR WORK,HEAT STRAIGHTENED,RUSTED BOTTOM FLANGE AND WEB W/ SEC LOSS ENDS WORST.,COLLISION NICKS.

BEAMS 1 and 4 eastbound LOWER FLANGES BENT FROM COLLISION DMG.FACIA BEAM DAMAGED HEAVY. Both Beams 1 and 4 have torn bottom flanges jeopardizing their load carrying capacity. Several crossframe welds are broken.

Diaphragm/X-Frames (EA)

BAY 1 3 CROSS FRAMES DAMAGED FROM COLLISIO.

Bearing Devices (EA)

SECTION LOSS BY CORROSION

Utilities (LF)

ORROSION,RUST,RT FWD MOUNTS BROKEN,OLD COLL.DAMAGE.CONCRETE LIGHT FOUNDATION DETER.SPALLED, EXPOSED REBAR OVER EAST B.TRAFFIC FAR LEFT AND CENTER LANE.

Substructure

Pier Caps (LF)

SPALLED IN BETWEEN SEAT SPLIT AND CAP, ALSO EACH SIDE OF SPLIT

Pier Columns/Bents (EA)

CRACKS,SPALLED. 2020 2,3,4,5, SPALLED WITH EXPOSED REBAR IN SPLASH ZONE.

Backwalls (LF)

/DETER. AT TOPS BREAKING UP REAR AND FWD.,AGAINST BEAM FWD

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1

Description 2025 fwd beam 2



PHOTO 2

Description Drainage failure at SW corner

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Pictures



PHOTO 3

Description 2025 beam 11



PHOTO 4

Description 2025beam 11

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Pictures



PHOTO 5

Description 2025 beam 11