

Inspector: Mathews,Timothy  
 Inspection Date: 09/10/2024

Structure Number: 2507595  
 Facility Carried: IR70 E TO IR71 N

## Ohio Bridge Inspection Summary Report

**FRA-00071-1703R (2507595)**

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

5A: Inventory Route 1 00071

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 IR70 E TO IR71 N  
 6: Feature Ints RMP IR71SB TO IR70EB  
 9: Location 0.53 MI S OF US40  
 Lat, Lon 39.9565258 ,-82.9828127

Condition	Structure Type
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**58: Deck**                      **6 - Satisfactory Condition**  
 58.01 Wearing Surface      5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint                    5- Fair (obvious leaking, 1" offset)  
**59: Superstructure**        **4 - Poor Condition**  
 59.01 Paint & PCS            6 - Satisfactory (5-10% corr.)  
**60: Substructure**           **5 - Fair Condition**  
**61: Channel**                **N**  
 61.01 Scour                   **N - Not Applicable**  
**62: Culverts**                **N - Not Applicable**

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        2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)  
     2- MicroSilica

67.01 GA                      4

Appraisal	422: WS Date
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Sufficiency Rating      55.1                    SD/FO 1 - SD  
 36: Rail, Tr, Gd, Term Std    1            0            1            1  
 72: Approach Alignment    7 - Better than present minimum criteria  
 113: Scour Critical            N - Not over waterway  
 71: Waterway Adequacy      N - Not Applicable

422: WS Date                    06/25/2005  
 423: WS Thick (in)            1.8  
 482: Protective Coating      5 - Paint System OZEU  
 483: PCS Date                 10/31/1990  
 453: Bearing Type 1         2 - Rockers & Bolsters  
 455: Bearing Type 2         B - Fixed  
 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)

Geometric	Age and Service
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48: Max Span Length (ft)            108.0  
 49: Structure Length (ft)            247.4  
 52: Deck Width, Out-To-Out (ft)    43.3  
 424: Deck Area (sf)                    10712.42  
 32: Appr Roadway Width (ft)        45.0  
 51: Road Width, Curb-Curb (ft)     40.3  
 50A: Curb/SW Width: Left (ft)      0  
 50A: Curb/SW Width: Right (ft)    0  
 34: Skew (deg)                        58  
 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

Age and Service	Inspections
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27: Year Built/ 106 Rehab 1965            /      0000  
 42A: Service On                    1 - Highway  
 42B: Service Under                1 - Highway, with or w/out pedestrian  
 28A: Lanes on                      02  
 28B: Lanes Under                 02  
 19: Bypass Length                1  
 29: ADT                                8462  
 109: % Trucks (%)                19

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 (%)        105  
 704: Analysis Date            07/29/2019  
 63: Analysis Method            6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

	Months	
90: Routine Insp.	12	09/10/2024
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
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	10722	sq. ft.	10354	116	252	0
CS2: Random underside cracks with efflorescence (12sf). CS3: Spalls in span 1 under right lane (10sf) and spall with exposed rebar on right deck edge span 2 (1sf). 2022 CS2 Transverse cracks w/ efflor & minor delams & spalls @ flanges 100 sq.ft CS3 Over PS1 bay 3 - large hot spot w/ map cracking w/ efflor. Large pot holes on top side 500 sq.ft Fwd. Edge - spalls w/ exposed rebar w/ section loss 7' 2023 CS2 trans cracking with efflor,minor delams and spalling @ flanges 100 sq ft. Over PS1 bay 3 large hot spot with map cracking and efflor 500 sq ft.							
<b>510-Wearing Surfaces</b>		9959	sq. ft.	9134	825	0	0
CS2: Broken and cracked area in right lane. 2022 CS2 Sound patched areas 650 sq.ft 2023 same as 2022							
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	1237	ft.	1193	15	7	22
2022 CS2 Fwd. beam #1 end - pack rust w/ minor section loss 4' CS4 Rear beam #1 end - rusted w/ major section loss in webbing at bottom flange 2' 2023 same as 2022							
<b>515-Steel Protective Coating</b>		13607	sq. ft.	0	13334	0	273
CS2: Minor rust on bottom flange throughout, (2%). 2022 CS2 Minor rust on bottom flange throughout, (2%). CS4 Beam #1 ends - 2023 same as 2022							
<b>205-Reinforced Concrete Column</b>	3 - Mod.	10	each	1	8	1	0
CS2: Minor cracking near bearings of several columns. CS3: Spall with exposed rebar pier 2 column 1. 2022 CS2 PS1 col.2-5 minor cracking at top PS2 col. 2 - minor open cracks CS3 PS2 col. 1 - Spall w/ exposed rebar 2023 same as 2022							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	164	ft.	153	11	0	0
CS2: Vertical cracking with water stains in rear abutment (5ft). 2022 - Same as previous inspection 2023 same as							
<b>305-Assembly Joint without Seal</b>	3 - Mod.	87	ft.	35	0	52	0
2022 CS3 Rear C/L - joint closed 12' 2023 same as 2022							
<b>311-Movable Bearing</b>	3 - Mod.	15	each	5	4	1	5

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
	CS2: Moderate rust at forward abutment bearings (3 EA). CS3: Heavy rust and debris at rear abutment and forward abutment bearings (7 EA). 2022 CS2 Rear bearings 2&4 - minor rust initiating CS3 Rear bearings 1,3,5 & Fwd. bearings 1,5- heavy rust and debris restricting movement 2023 same as 2022						
<b>313-Fixed Bearing</b>	3 - Mod.	5	each	5	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	2250	sq. ft.	2230	0	20	0
	CS3: Small hole in top left corner of rear approach slab (1sf). Hole should be filled to stop water pouring onto abutment. 2022 - Same as previous inspection 2023 same as						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	495	ft.	435	57	3	0
	CS2: Vertical cracking and vehicle scrape damage throughout (50ft). 2022 - Same as previous inspection CS3 Fwd. LT top - spall w/ exposed rebar w/ section loss 3' 2023 same as 2022						
<b>815-Drainage</b>	3 - Mod.	7	each	7	0	0	0
<b>830-Abutment Backwall</b>	3 - Mod.	164	ft.	77	39	13	35
	CS3: Several large spalls with exposed rebar, mainly in the rear backwall (60ft). 2022 CS2 Rear & Fwd. - spalled delam. concrete t/o 15' CS3 Rear RT - large spall w/ exposed rebar w/ section loss 10' Fwd. T/O - spalls w/ exposed rebar w/ section loss 23' CS4 Rear LT - Large spall w/ 360 degree exposed rebar w/ section loss & small 2x1 thru hole at joint (top LT) 7' Fwd. RT top - deep spall w/ exposed rebar w/ thru hole 2' 2023 same as 2022						

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ODOT District: District 06

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Date Built: 07/01/1965

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: RMP IR71SB TO IR70EB

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

0.53 MI S OF US40

Insp Resp B:

Inspector

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Inspection Date 09/10/2024

Reviewer Backs,Jared

**Inspector Comments - Deck and Approach**

**Deck**

Deck is in good condition, minor spalls with exposed rebar.

Overlay is in good condition, one broken and cracked area.

Railing is in good condition, typical vertical cracking and vehicle scrape damage.

**Approach**

Approach slab is not visible due to AC overlay.

Hole in top of left rear approach slab allows water onto beam seat.

Approach guardrail in good condition.

**Inspector Comments - General Appraisal**

**Superstructure**

Superstructure is in fair condition, heavy rust to abutment bearings and minor rust on bottom flanges.

No utilities.

**Substructure**

Substructures are in fair condition, heavy spalling with exposed rebar in backwalls.

Abutments are in fair condition, heavy spalling with exposed rebar in backwalls.

Piers are in good condition, minor cracking in columns.

Wingwalls are in good condition, spall in corner of left forward wingwall.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

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**Channel**

**Scour Critical**

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### Bridge Inspection Report

### Pictures



PHOTO 1

Description Rear Abut



PHOTO 2

Description PS1 col. 3

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### Bridge Inspection Report

### Pictures



PHOTO 3

Description B1 @ Rear Abut



PHOTO 4

Description Rear backwall bay 1

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PHOTO 5

Description Span 1 B5



PHOTO 6

Description Span 1 B3

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### Bridge Inspection Report

### Pictures



PHOTO 7

Description Span 1 B2

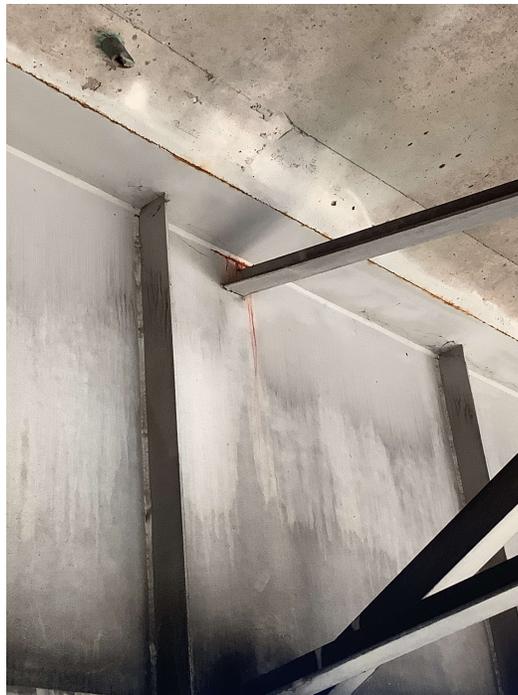


PHOTO 8

Description Span 1 B1

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PHOTO 9

Description Bay 3 @ PS1



PHOTO 10

Description Span 2 B1 (near middle of span)

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PHOTO 11

Description PS2 col. 1



PHOTO 12

Description Fwd Abut bearing #1

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PHOTO 13

Description Span 3 B1 (2 cross members toward Rear from Fwd Abut)



PHOTO 14

Description 20240910\_095513\_2507595

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### Bridge Inspection Report

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PHOTO 15  
Description Fwd Joint



PHOTO 16  
Description Wearing Surface

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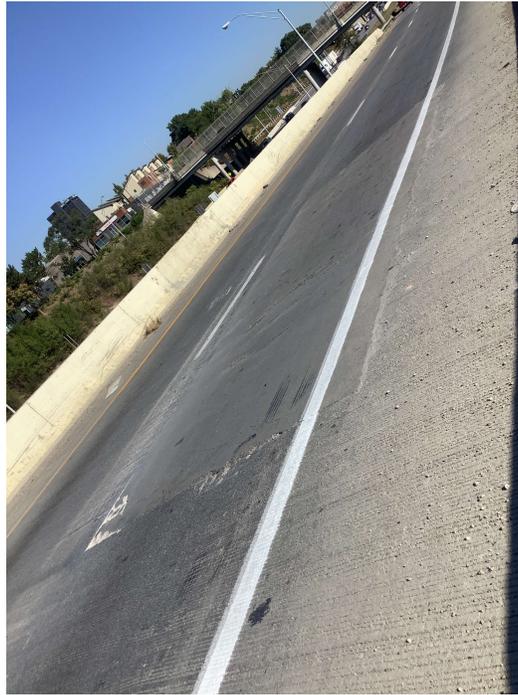


PHOTO 17

Description WS - large patched area



PHOTO 18

Description Rear Approach

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PHOTO 19

Description Span 3 B1 (2nd cross frame back from Fwd Abut)

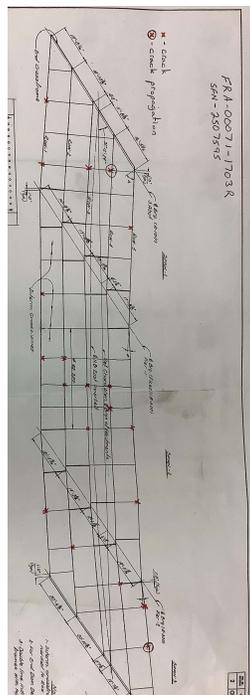


PHOTO 20

Description Sketch of crack locations