

Inspector: Mathews,Timothy  
 Inspection Date: 02/15/2025

Structure Number: 5101174  
 Facility Carried: CR 26

## Ohio Bridge Inspection Summary Report

**MAR-00023-1692 (5101174)**

2: District 31192 - GRAND PRAIRIE TWP (MAR county)  
 District 06

5A: Inventory Route 1 C0026

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 CR 26  
 6: Feature Ints OVER USR 23-1692  
 9: Location 0.79 MI N OF SR4  
 Lat, Lon 40.673769 ,-83.118361

Condition	Structure Type
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**58: Deck** **7 - Good Condition**  
 58.01 Wearing Surface 7 - Good (1% distress)  
 58.02 Joint 7- Good (no leaking)  
**59: Superstructure** **3 - Serious Condition**  
 59.01 Paint & PCS 7 - Good (1-5% corr.)  
**60: Substructure** **8 - Very Good 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 4 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck N - Non-composite Construction  
 414A Joint Type 1 8 - Elastomeric Strip Seal  
 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** **3**

Appraisal	422: WS Date
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Sufficiency Rating 40.0 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

09/19/1995  
 423: WS Thick (in) 1.2  
 482: Protective Coating 5 - Paint System OZEU  
 483: PCS Date 01/01/1981  
 453: Bearing Type 1 2 - Rockers & Bolsters  
 455: Bearing Type 2 B - Fixed  
 528: Foundn: Abut Fwd 1 - Steel H Piles (Other size)  
 533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)  
 536: Foundn: Pier 1 1 - Steel H Piles (Other size)  
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Geometric	Age and Service
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48: Max Span Length (ft) 81.0  
 49: Structure Length (ft) 281.3  
 52: Deck Width, Out-To-Out (ft) 30.0  
 424: Deck Area (sf) 8439  
 32: Appr Roadway Width (ft) 24.0  
 51: Road Width, Curb-Curb (ft) 24.0  
 50A: Curb/SW Width: Left (ft) 0  
 50A: Curb/SW Width: Right (ft) 0  
 34: Skew (deg) 39  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 14.42  
 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 1967 / 0000  
 42A: Service On 1 - Highway  
 42B: Service Under 1 - Highway, with or w/out pedestrian  
 28A: Lanes on 02  
 28B: Lanes Under 04  
 19: Bypass Length 6  
 29: ADT 210  
 109: % Trucks (%) 8

Load Posting	Inspections
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41: Op/Post/Closed K - Closed  
 70: Posting 5 - Equal to or above legal loads  
 70.01: Date  
 70.02: Sign Type  
 734: Percent Legal (%) 130  
 704: Analysis Date 03/31/2023  
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

	Months	
90: Routine Insp.	24	03/17/2023
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0 02/15/2025
92D: UBIT Insp.	N	0
92E: Drone Insp.	N	0

Inspector Mathews,Timothy

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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.	8440	sq. ft.	8253	162	25	0
	2021 CS2 Spalls, trans. Cracks Spans 1,2 and 3 168sf CS3 Spalls w/exposed rebar spans 2 & 3 20 sf 2023 same + CS2 fwd & rear rt. corners shear cracked & spalled . 8sf , small area of saturation @ deck end rear bay 3 / 4sf						
<b>510-Wearing Surfaces</b>		6752	sq. ft.	6744	8	0	0
	2021 CS2 Small area breaking up rt.fwd @ joint 8 sf 2023 same						
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	1126	ft.	914	0	162	50
	2/15/2025 <b>**BRIDGE HIT**</b> County Rd 26 over 23 has been closed, barricades were set at time of inspection. Accident Report #51-0129-51 CS2- There appears to minor lateral distortion in Beam 2 Span 3 near mid span caused by impact. Possible loss of camber in Beams 2&3 in Span 3, (162'). CS4- Span 3 B4 near the splice plate was struck with an oversized load traveling on 23NB. Impact caused severe lateral distortion in Beam 4. Approximately 50' of B4 is distorted laterally as well as torsional damage to the bottom flange and web at the impact site. Vertical clearance measurements were taken under Beam 4 at the yellow line = 14' 11 and 15/32", c/l = 14' 7 and 31/32", edge line = 14' 8 and 27/32". Impact site now measures 14' 10 and 25/32". Cross frames in all bays of span 3 were damaged and are as follows; Bay1- x frame # 5 damaged and lateral brace removed, Bay2- x frames 2&5 damaged with lateral bracing removed and x frames 3&4 completely missing, Bay3- x frames 5-7 damaged with lateral bracing removed at 5&6. <b>**SEE PICS**</b>						
<b>515-Steel Protective Coating</b>		9899	sq. ft.	9899	0	0	0
<b>205-Reinforced Concrete Column</b>	3 - Mod.	6	each	6	0	0	0
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	78	ft.	78	0	0	0
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	116	ft.	96	20	0	0
	2021 CS2 Scaling,small shallow spalls w/exposed rebar all pier caps 20' 2023 same						
<b>300-Strip Seal Expansion Joint</b>	3 - Mod.	60	ft.	50	10	0	0
	2023 CS2 partly filled w/chip seal fwd & rear 10'						
<b>311-Movable Bearing</b>	3 - Mod.	20	each	20	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	960	sq. ft.	910	50	0	0
	2021 CS2 Chip sealed over w/some open cracks 50 sf 2023 same + CS2 asphalt breaking up @ header fwd & rear .						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	563	ft.	563	0	0	0
<b>815-Drainage</b>	3 - Mod.	12	each	12	0	0	0
<b>830-Abutment Backwall</b>	3 - Mod.	78	ft.	78	0	0	0

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ODOT District: District 06

**MAR-00023-1692\_(5101174)**

Date Built: 07/01/1967

Major Maint: 01 - State Highway Agency

Facility Carried: CR 26

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: OVER USR 23-1692

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 31192 - GRAND PRAIRIE TWP (MAR county)

Location: DISTRICT 06

0.79 MI N OF SR4

Insp

Inspector

Mathews,Timothy

Inspection Date 02/15/2025

Reviewer Not Approved

Resp B:

## **Inspector Comments - Deck and Approach**

### **Deck**

#### **Floor/Slab (SF)**

TRANSV.CRACKS,SEEPING W/EFFLOR,DELAM.AND SPALLED AREAS W/EXPOSED REBAR OVER 23 SB. AND NB.(18SF TOTAL)

#### **Bridge Wearing Surface (SF)**

2019 MAP CRACKING THRU OUT.

### **Approach**

#### **Approach Wearing Surface (EA)**

LG. OPEN CRACKS THRU-OUT, FWD AND REAR.

#### **Approach Slab (SF)**

BREAKING UP AT BACKWALL LT.AND RT 2019 SLABS HAVE BEEN CHIP SEALED, OPEN CRACKS AND DETERATING FWD AND REAR.

#### **Approach Embankment (EA)**

WASHED OUT UNDER APPROACH RAIL RT REAR UNDERMINED SLAB.

## **Inspector Comments - General Appraisal**

### **Superstructure**

#### **Beams/Girders (LF)**

RUSTED AT BOTTOM FLANGES/BEAM ENDS ALL BEAMS.,SECTION LOSS AT BEAM ENDS. 2019 BEAM ENDS HAVE BEEN SAND BLASTED ALL BEAMS HAVE BEEN REPAINTED.

2/15/2025 \*\*BRIDGE HIT\*\*

Accident Report #51-0129-51

CS2-

There appears to minor lateral distortion in Beam 2 Span 3 near mid span caused by impact. Possible loss of camber in Beams 2&3 in Span 3, (162').

CS4-

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Span 3 B4 near the splice plate was struck with an oversized load traveling on 23NB. Impact caused severe lateral distortion in Beam 4. Approximately 50' of B4 is distorted laterally as well as torsional damage to the bottom flange and web at the impact site. Vertical clearance measurements were taken under Beam 4 at the yellow line = 14' 11 and 15/32", c/l = 14' 7 and 31/32", edge line = 14' 8 and 27/32". Impact site now measures 14' 10 and 25/32". Cross frames in all bays of span 3 were damaged and are as follows; Bay1- x frame # 5 damaged and lateral brace removed, Bay2- x frames 2&5 damaged with lateral bracing removed and x frames 3&4 completely missing, Bay3- x frames 5-7 damaged with lateral bracing removed at 5&6.

### **Diaphragm/X-Frames (EA)**

RUSTED 1 BROKEN AND BENT OVER NB IN BAY 1 SPAN 3.

### **Bearing Devices (EA)**

ALL W/RUST., ,SECTION LOSS AT ABUT.TILTED LT.REAR. 2019 ALL BEARING CLEANED UP PAINTED AND FIXED.

### **Protective Coating System (LF)**

CORR. SECTION LOSS 2019 REPAINTED.

### **Fatigue (LF)**

WELDED MOMENT PLATES.

## **Substructure**

### **Pier Caps (LF)**

PIER CAPS,MINOR SPALLS.REBAR EXPOSED MIDDLE PIER AT TOP OF COLUMN AND LT.PIER AT FWD.END. 2019 ALL 3 PIER CAPS HAVE MINOR SPALLS WITH EXPOSED REBAR. LOOKS LIKE THE REBAR DIDNT HAVE ENOUGH COVER WHEN BUILT.

## **Culvert**

## **Inspector Comments - Waterway**

### **Waterway Adequacy**

### **Channel**

### **Scour Critical**

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### Bridge Inspection Report

### Pictures



PHOTO 1

Description 23 NB Span3 Beam 4



PHOTO 2

Description Span3 B4

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### Bridge Inspection Report

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PHOTO 3  
Description Span3 B4



PHOTO 4  
Description Span3 B4 23nb

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PHOTO 5

Description Span3 bay1 x frame 5 bent



PHOTO 6

Description Span3 bay2 x frames 2-4 damaged



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PHOTO 7

Description Span3 bay 3 x frames 5-7 damaged



PHOTO 8

Description Span 3 bay 3

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PHOTO 9

Description Span3 B4 over 23nb



PHOTO 10

Description Span3 B4

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PHOTO 11

Description Span3 B4



PHOTO 12

Description Span3 bay3

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PHOTO 13

Description Span3 bay 3 x frame 6



PHOTO 14

Description Span3 B3 possible loss of camber

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PHOTO 15

Description Span3 bay2 (1 lateral brace@#2 removed- xframes #3&4 removed)



PHOTO 16

Description Span3 B2 possible lose of camber

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PHOTO 17

Description Span3 B2



PHOTO 18

Description Span3 B2

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### Bridge Inspection Report

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PHOTO 19

Description Barricades set at east side of structure



PHOTO 20

Description Barricades set at west side of structure

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Bridge Inspection Report

Pictures



PHOTO 21

Description Loose concrete removed in span3 bay3

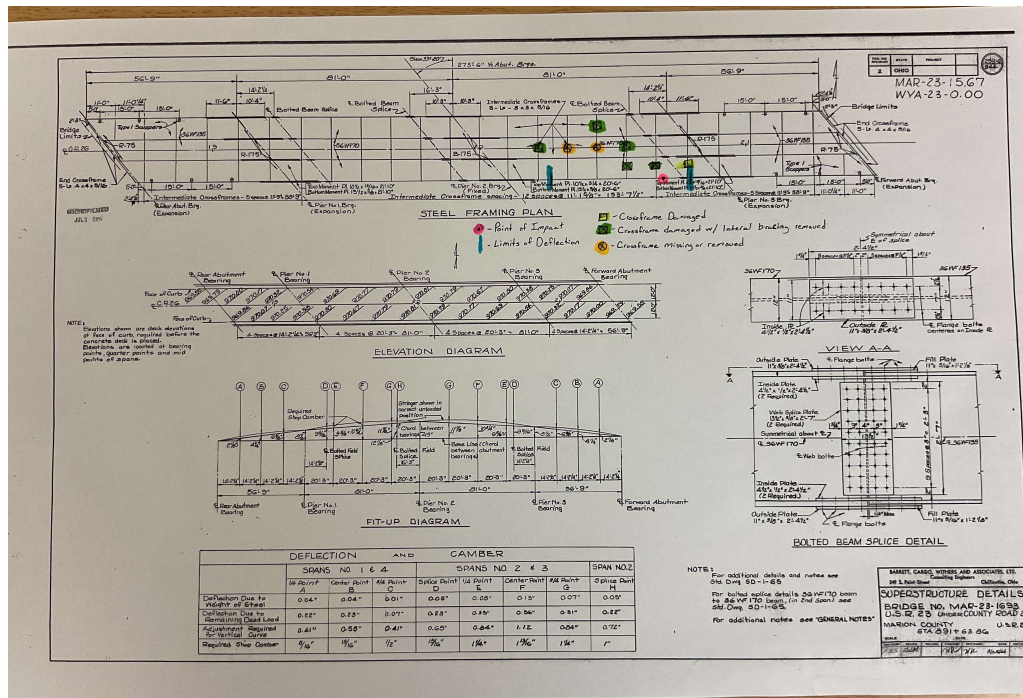


PHOTO 22

Description