

Inspector: Jewell,Todd  
 Inspection Date: 07/02/2024

Structure Number: 1000543  
 Facility Carried: SR 39

## Ohio Bridge Inspection Summary Report

**CAR-00039-1985 (1000543)**

2: District 81116 - WASHINGTON TWP (CAR county)  
 ict  
 11

5A: Inventory Route 1 00039

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 11

7: Facility On SR 39  
 6: Feature Ints S BR OF FRIDAY CR  
 9: Location 3.56 MI. S. OF JCT. SR524  
 Lat, Lon 40.598583 ,-81.010461

Condition	
<b>58: Deck</b>	<b>4 - Poor Condition</b>
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	N- Not Applicable
<b>59: Superstructure</b>	<b>4 - Poor Condition</b>
59.01 Paint & PCS	N - Not Applicable
<b>60: Substructure</b>	<b>6 - Satisfactory Condition</b>
<b>61: Channel</b>	<b>6</b>
61.01 Scour	7 - Good
<b>62: Culverts</b>	<b>N - Not Applicable</b>
<b>67.01 GA</b>	<b>4</b>

Structure Type	
43: Bridge Type	5 - Prestressed concrete
	05 - Box Beam or Girders - Multiple
	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	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	6 - Bituminous
	N- Not Applicable

Appraisal	
Sufficiency Rating	58.3 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	1 1 1 1
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	5 - Scour within limits of footing or piles
71: Waterway Adequacy	8 - Bridge Above Approaches

422: WS Date	
423: WS Thick (in)	4.5
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	4 - Elastomeric (Plain)
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	U - Unknown
533: Foundn: Abut Rear	U - Unknown
536: Foundn: Pier 1	U - Unknown
539: Foundn: Pier 2	U - Unknown

Geometric	
48: Max Span Length (ft)	23.0
49: Structure Length (ft)	51.0
52: Deck Width, Out-To-Out (ft)	30.3
424: Deck Area (sf)	1545.3
32: Appr Roadway Width (ft)	32.0
51: Road Width, Curb-Curb (ft)	30.3
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	30
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	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	1927 / 1981
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	35
29: ADT	3159
109: % Trucks (%)	10

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	06/30/2022
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	07/02/2024
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>15-Prestressed Concrete Top Flange</b>	3 - Mod.	1545	sq. ft.	1012	87	219	227
SEE ELEMENT 104 NOTES.							
510-Wearing Surfaces		1545	sq. ft.	1435	30	80	0
CS3- 80 SF OF SHORT TRANSVERSE CRACKS ON LT AND RT SIDE IN SHOULDER AREA. CS2- ONE 30 SF TRANSVERSE CRACK OVER TOP OF PIER.							
<b>104-Prestressed Concrete Closed Web/Box Girder</b>	3 - Mod.	408	ft.	267	23	58	60
<p>SPAN 1:</p> <p>BEAM1:</p> <p>CS4- 28 LF OF DEEP SPALL UNDER DRIP STRIP WITH TOP REBAR EXPOSED.</p> <p>CS3- 28 LF OF LEAKING BETWEEN BEAM 1 AND 2 WITH HEAVY EFFLO.</p> <p>BEAM 4:</p> <p>CS2- 1 LF CR. AND DELAM. WITH RUST STAINS ON RT EDGE NEAR MIDSPAN.</p> <p>BEAM 5:</p> <p>CS2- 3 LF CR. AND DELAM. ON RT EDGE NEAR REAR ABUTMENT.</p> <p>BEAM 6:</p> <p>CS4- 7 LF SPALL WITH ONE STRAND BROKEN ON RT EDGE NEAR REAR.</p> <p>CS3- 2 LF SPALL WITH ONE STRAND EXPOSED AT THE LT FWD CORNER.</p> <p>CS2- 2 LF CR. AND DELAM. AT LT REAR CORNER.</p> <p>BEAM 7:</p> <p>CS3- 28 LF OF LEAKING BETWEEN BEAM 7 AND 8 WITH HEAVY EFFLO.</p> <p>BEAM 8:</p> <p>CS4- 1 LF SPALL WITH ONE STRAND BROKEN AT THE RT REAR CORNER. 8 LF SPALL UNDER THE DRIP STRIP WITH 7 VERTICAL REBAR AND TWO HORIZONTAL BARS EXPOSED AND RUSTING JUST REAR OF MIDSPAN. 4 LF SPALL WITH 6 VERTICAL REBAR, 2 HORIZONTAL BARS, AND 1 BOTTOM STRAND EXPOSED AT RT FWD.</p> <p>SPAN 2:</p> <p>BEAM 1:</p> <p>CS4- 4 LF SPALL AT LT REAR.</p> <p>CS2- 2 LF OF LEAKING BETWEEN BEAM 1 AND 2 NEAR FWD AND 2 LF NEAR REAR.</p> <p>BEAM 2:</p> <p>CS2- 3 LF CR. AND DELAM. ON LT EDGE FWD 1/3 OF SPAN.</p> <p>BEAM 6:</p> <p>CS2- 2 LF OF LEAKING BETWEEN BEAM 6 AND 7.</p> <p>BEAM 7:</p> <p>CS2- 8 LF OF LEAKING BETWEEN BEAM 7 AND 8 AT REAR ABUTMENT.</p> <p>BEAM 8:</p> <p>CS4- 4 LF SPALL AT RT REAR UNDER SRIP STRIP. 8 VERTICAL BARS AND 2 HORIZONTAL STEEL EXPOSED WITH 1 STRAND BROKEN. 2 LF SPALL AT GUARDRAIL POST IN 2 LOCATIONS NEAR FWD (4 LF TOTAL).</p>							
<b>210-Reinforced Concrete Pier Wall</b>	3 - Mod.	35	ft.	29	3	2	1
CS4- 1 LF OF WIDE CRACK AT CL OF WALL. CS3- 2 LF SPALL ON RT END. CS2- 1 LF OF VERTICAL CRACK WITH EFFLO AND 2 LF WITH RUST STAINS.							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	106	ft.	82	10	9	5
	REAR: CS3- 6 LF OF SPALL WITH REBAR EXPOSED AT LT REAR AND 2 LF AT RT REAR. 1 LF OF SPALL UNDER BEAM 3. CS2- 6 LF HORIZONTAL CRACK AT RT REAR WITH MINOR EFFLO. FWD: CS4- 5 LF OF DEEP SPALL AT RT FWD CORNER. CS2- 4 LF OF VERTICAL CRACK.						
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	35	ft.	15	3	17	0
	CS3- 5 LF OF HORIZONTAL CR. WITH RUST STAINS AT LT AND 10 LF IN THE MIDDLE. 2 LF OF AREAS WITH HEAVY RUST STAINS AT VERTICAL CRACKS. CS2- 3 LF HORIZONTAL CRACK RT OF CL.						
<b>306-Other Joint</b>	3 - Mod.	30	ft.	0	26	4	0
	CS2- (26LF) TRANSVERSE CRACK OVER TOP OF PIERS. CS3- (4LF) 2' OF DECK JOINT EDGE IS ALLOWING WATER DETERIORATION OF BEAMS AT JOINT ON BOTH LT/RT.						
<b>310-Elastomeric Bearing</b>	3 - Mod.	64	each	64	0	0	0
<b>330-Metal Bridge Railing</b>	3 - Mod.	102	ft.	78	24	0	0
	27.5" HIGH CS2- (24LF) MINOR DAMAGE AT BOTH RT REAR AND FWD 2 PANELS.						
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0

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ODOT District: District 11

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Date Built: 07/01/1927

Major Maint: 01 - State Highway Agency

Facility Carried: SR 39

Traffic On: 1 - Highway

Rehab Date: 01/01/1981

Routine Maint: 01 - State Highway Agency

Feature Inters: S BR OF FRIDAY CR

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 81116 - WASHINGTON TWP (CAR county)

Location: DISTRICT 11

3.56 MI. S. OF JCT. SR524

Resp A:

Inspector

Jewell,Todd

Inspection Date 07/02/2024

Reviewer Trivoli,Raymond

Insp

Resp B:

**Inspector Comments - Deck and Approach**

**Deck**

**Approach**

**Approach Wearing Surface (EA)**

NEW ASPHALT IN 2018.

RANDOM TRANSVERSE CRACKS AND MAP CRACKING.

**Approach Guardrail (EA)**

POSTS STARTING TO ROT @ GROUND LEVEL AND IN CENTER. COLLISION DAMAGE AND RAIL PUSHED BACK AT RT AND LT FWD AND LT REAR. POST ARE BENT BACK AWAY FROM RAIL.

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel Hydraulic Opening (EA)**

BUILD UP OF VEGETATION & DEBRIS, FENCE DOWN IN STREAM AT OUTLET END.

**Channel**

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**Scour Critical**

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**Bridge Inspection Report**

**Pictures**