

Inspector: Jewell,Todd

Inspection Date: 02/21/2024

Structure Number: 1504576

Facility Carried: SR 170

Ohio Bridge Inspection Summary Report

COL-00170-1895 (1504576)

2: District 78890 - UNITY TWP (COL county)
ict
11

5A: Inventory Route 1 00170

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 170
6: Feature Ints N FORK LITTLE BEAVER CR
9: Location 1.71 MI N OF SR 14
Lat, Lon 40.885967 , -80.544618

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	2 - Concrete continuous
58.01 Wearing Surface	4 - Poor (advanced)		01 - Slab
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	4 - Poor Condition	408: Composite Deck	U - Unknown
61: Channel	5	414A Joint Type 1	N - None
61.01 Scour	6 - Satisfactory	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
67.01 GA	4		N- Not Applicable

Appraisal			
Sufficiency Rating	69.7	SD/FO	1 - SD
36: Rail, Tr, Gd, Term Std	1	0	1 1
72: Approach Alignment	6 - Equal to present minimum criteria		
113: Scour Critical	8 - Stable for scour conditions		
71: Waterway Adequacy	7 - Slight Chance of Overtopping Bridge		

Geometric	
48: Max Span Length (ft)	30.0
49: Structure Length (ft)	81.0
52: Deck Width, Out-To-Out (ft)	40.0
424: Deck Area (sf)	3240
32: Appr Roadway Width (ft)	40.0
51: Road Width, Curb-Curb (ft)	40.0
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

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	09/08/2023
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

422: WS Date	
423: WS Thick (in)	1.0
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	7 - Steel H Piles (HP 10 x 42)
533: Foundn: Abut Rear	7 - Steel H Piles (HP 10 x 42)
536: Foundn: Pier 1	8 - Steel H Piles (HP 12 x 53)
539: Foundn: Pier 2	U - Unknown

Age and Service		
27: Year Built/ 106 Rehab	1990	/ 0000
42A: Service On	1 - Highway	
42B: Service Under	5 - Waterway	
28A: Lanes on	02	
28B: Lanes Under	00	
19: Bypass Length	12	
29: ADT	2497	
109: % Trucks (%)	12	

Inspections		
	Months	
90: Routine Insp.	12	02/21/2024
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
Inspector	Jewell,Todd	

Structure Number: 1504576
Facility Carried: SR 170

[illegible]

Structure Number: 1504576
Facility Carried: SR 170

[illegible]

Inspector: Jewell,Todd

Structure Number: 1504576

Inspection Date: 02/21/2024

Facility Carried: SR 170

ODOT District: District 11

COL-00170-1895_(1504576)

Date Built: 07/01/1990

Major Maint: 01 - State Highway Agency

Facility Carried: SR 170

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: N FORK LITTLE BEAVER CR

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 78890 - UNITY TWP (COL county)

Location: DISTRICT 11

1.71 MI N OF SR 14

Insp
Resp B:

Inspector

Jewell,Todd

Inspection Date 02/21/2024

Reviewer Trivoli,Raymond

Inspector Comments - Deck and Approach

Deck

Approach

Inspector Comments - General Appraisal

Superstructure

Substructure

2021: Rear is south, and forward is north. The top of the Rear Abutment footer is exposed up to 12"H throughout, and the top of the Forward Abutment footer is exposed throughout.

2023: The face of the both pile caps are exposed up to 15"H throughout.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

2021: The channel flows from the southwest towards the northeast end of Span 2. A large sand and gravel bar with vegetation growth is present in the middle of the channel upstream which diverts flow towards Pile 1 of Piers 1 and 2. The channel bed is up to 45"D between Piles 1-4 of Pier 2, and moderate debris was lodged around Piles 1 and 2 of Pier 2 at the time of the inspection.

2022: water level up due to rain. Unable to inspect below normal water line. Will leave substructure a 5.

2023: The channel flows from the southwest towards the northeast end of Span 2. A large sand and gravel bar with vegetation growth is present in the middle of the channel upstream which diverts flow towards Pile 1 of Piers 1 and 2, causing undercutting of the embankment at the NW corner. The channel bed is up to 45"D between Piles 1-4 of Pier 2, and

Inspector: Jewell,Todd

Structure Number: 1504576

Inspection Date: 02/21/2024

Facility Carried: SR 170

moderate debris was lodged around Piles 1 and 2 of Pier 2 at the time of the inspection.

2024: NO CHANGE FROM 2023 INSP.

Scour Critical

Inspector: Todd Jewell

Structure Number: 1504576

Inspection Date: 02/21/2024

Facility Carried: SR 170

Bridge Inspection Report

Pictures