

Inspector: Bardall,Jay
Inspection Date: 10/18/2023

Structure Number: 7900511
Facility Carried: US 36 RAMP

Ohio Bridge Inspection Summary Report

TUS-00036-1817J (7900511)

2: District Distr 78176 - UHRICHSVILLE (TUS county)
ict
11
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

5A: Inventory Route 1 00036
7: Facility On US 36 RAMP
6: Feature Ints BIG STILLWATER CR(RAMP J
9: Location ON RAMP J AT JCT. US 250
Lat, Lon 40.40253 , -81.34965

| Condition | | Structure Type | |
|--|--|---------------------------|--|
| 58: Deck | 7 - Good Condition | 43: Bridge Type | 2 - Concrete continuous |
| 58.01 Wearing Surface | 7 - Good (1% distress) | 01 - Slab | |
| 58.02 Joint | N- Not Applicable | N- Not Applicable | |
| 59: Superstructure | 7 - Good Condition | 45: Spans Main / Approach | 4 / 0 |
| 59.01 Paint & PCS | N - Not Applicable | 107: Deck Type | 1 - Concrete Cast-in-Place |
| 60: Substructure | 6 - Satisfactory Condition | 408: Composite Deck | N - Non-composite Construction |
| 61: Channel | 8 | 414A Joint Type 1 | N - None |
| 61.01 Scour | 7 - Good | 414B: Joint Type 2 | N - None |
| 62: Culverts | N - Not Applicable | 108A: Wearing Surface | 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 2- MicroSilica |
| 67.01 GA | 6 | 422: WS Date | 08/01/1996 |
| Appraisal | | 423: WS Thick (in) | 1.3 |
| Sufficiency Rating | 84.6 | SD/FO | 0 - ND |
| 36: Rail, Tr, Gd, Term Std | 1 | 0 | 1 1 |
| 72: Approach Alignment | 8 - Equal to present desirable criteria | | |
| 113: Scour Critical | 8 - Stable for scour conditions | | |
| 71: Waterway Adequacy | 8 - Bridge Above Approaches | | |
| Geometric | | 482: Protective Coating | N - None or Not Applicable |
| 48: Max Span Length (ft) | 45.0 | 483: PCS Date | |
| 49: Structure Length (ft) | 164.0 | 453: Bearing Type 1 | N - None |
| 52: Deck Width, Out-To-Out (ft) | 38.3 | 455: Bearing Type 2 | N - None |
| 424: Deck Area (sf) | 6281.2 | 528: Foundn: Abut Fwd | A - Cast-in-Place Reinforced Concrete Piles (12" diameter) |
| 32: Appr Roadway Width (ft) | 42.0 | 533: Foundn: Abut Rear | A - Cast-in-Place Reinforced Concrete Piles (12" diameter) |
| 51: Road Width, Curb-Curb (ft) | 33.7 | 536: Foundn: Pier 1 | A - Cast-in-Place Reinforced Concrete Piles (12" diameter) |
| 50A: Curb/SW Width: Left (ft) | 1 | 539: Foundn: Pier 2 | N - None (Such as most Culverts) |
| 50A: Curb/SW Width: Right (ft) | 1 | | |
| 34: Skew (deg) | 0 | | |
| 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 | | Age and Service | |
| 41: Op/Post/Closed | A - Open | 27: Year Built/ Rehab | 1969 / 0000 |
| 70: Posting | 5 - Equal to or above legal loads | 42A: Service On | 1 - Highway |
| 70.01: Date | | 42B: Service Under | 5 - Waterway |
| 70.02: Sign Type | | 28A: Lanes on | 02 |
| 734: Percent Legal (%) | 120 | 28B: Lanes Under | 00 |
| 704: Analysis Date | 05/01/2023 | 19: Bypass Length | 0 |
| 63: Analysis Method | 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) | | |
| Inspections | | Months | |
| 90: Routine Insp. | N | 12 | 10/18/2023 |
| 92A: FCM Insp. | N | 0 | |
| 92B: Dive Insp. | N | 60 | 05/03/2022 |
| 92C: Special Insp. | N | 0 | |
| 92D: UBIT Insp. | N | 0 | |
| 92E: Drone Insp. | N | 0 | |

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method using HL-93 loadings.

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| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|--|-------------|--|---------|-------------------|-------------------|-------------------|-------------------|
| 38-Reinforced Concrete Slab | 3 - Mod. | 6275 | sq. ft. | 5625 | 602 | 48 | 0 |
| | | HORIZONTAL CRACKS AND BRAKING OUT AT CONSTRUCTION JOINTS BETWEEN DECK FLOOR AND ABUTMENTS. CRACKING, SEEPAGE AND DELAMINATION AT CENTERLINE AND ELSEWHERE WITH EFFLORESCENCE. 2023 INSP: SPAN 1: CS2- 24 SF OF LONGITUDINAL CRACKS WITH LIGHT EFFLO. SPAN 2: CS3- 48 SF CRACKED AND DELAMINATED AREA WITH RUST STAINS AT CL. SPAN 3: CS2- 8 SF CRACKED AND DELAMINATED AREA AT CL. SPAN 4: CS2- 24 SF OF LONGITUDINAL CRACKS WITH EFFLO AT CL. | | | | | |
| 510-Wearing Surfaces | | 5522 | sq. ft. | 5243 | 276 | 3 | 0 |
| | | A FEW RANDOM CRACKS. CS3- 2 SF OF POTHOLE AT FWD DECK JOINT, PATCHED WITH ASPHALT. | | | | | |
| 210-Reinforced Concrete Pier Wall | 3 - Mod. | 48 | ft. | 48 | 0 | 0 | 0 |
| 215-Reinforced Concrete Abutment | 3 - Mod. | 109 | ft. | 87 | 22 | 0 | 0 |
| 234-Reinforced Concrete Pier Cap | 3 - Mod. | 115 | ft. | 110 | 5 | 0 | 0 |
| 321-Reinforced Concrete Approach Slab | 3 - Mod. | 2100 | sq. ft. | 2018 | 82 | 0 | 0 |
| 330-Metal Bridge Railing | 3 - Mod. | 328 | ft. | 327 | 1 | 0 | 0 |
| 331-Reinforced Concrete Bridge Railing | 3 - Mod. | 328 | ft. | 328 | 0 | 0 | 0 |
| 815-Drainage | 3 - Mod. | 12 | each | 10 | 2 | 0 | 0 |
| 840-Approach Slab: Termination or Joint | 3 - Mod. | 76 | ft. | 76 | 0 | 0 | 0 |

| | | | |
|----------------------------------|-----------------------------------|--------------------------|---|
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| Inspection Date: | 10/18/2023 | Facility Carried: | US 36 RAMP |
| TUS-00036-1817J_(7900511) | | | |
| ODOT District: | District 11 | Date Built: | 07/01/1969 |
| Major Maint: | 01 - State Highway Agency | Facility Carried: | US 36 RAMP |
| Routine Maint: | 01 - State Highway Agency | Feature Inters: | BIG STILLWATER CR(RAMP J |
| FIPS Code: | 78176 - UHRICHSVILLE (TUS county) | Location: | DISTRICT 11 ON RAMP J AT JCT. US 250 |
| Inspector | Bardall,Jay | Inspection Date | 10/18/2023 |
| | | Reviewer | Trivoli,Raymond |
| Insp. | 01 - State Highway Agency | Rehab Date: | |
| Resp A: | | Insp | |
| Insp | | Resp B: | |
| Resp B: | | | |

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

HORIZONTAL CRACKS AND BRAKING OUT AT CONSTRUCTION JOINTS BETWEEN DECK FLOOR AND ABUTMENTS. CRACKING, SEEPAGE AND DELAMINATION AT CENTERLINE AND ELSEWHERE WITH EFFLORESCENCE. **2023 INSP: SPAN 1: CS2- 24 SF OF LONGITUDINAL CRACKS WITH LIGHT EFFLO. SPAN 2: CS3- 48 SF CRACKED AND DELAMINATED AREA WITH RUST STAINS AT CL. SPAN 3: CS2- 8 SF CRACKED AND DELAMINATED AREA AT CL. SPAN 4: CS2- 24 SF OF LONGITUDINAL CRACKS WITH EFFLO AT CL.**

Bridge Wearing Surface (SF)

A FEW RANDOM CRACKS. CS3- 2 SF OF POTHOLE AT FWD DECK JOINT, PATCHED WITH ASPHALT.

Bridge Railing (LF)

HAIRLINE CRACKING IN CONCRETE. ALUMINUM RAIL ON TOP OF CONCRETE RAIL. ONE SPLICING IS MISSING ON RT (MID-SPAN).

Deck Drainage (EA)

HEAVY RUST ON DOWNSPOUT BOTTOMS.

Approach

Approach Wearing Surface (EA)

NEW ASPHALT IN 2021.

Approach Slab (SF)

ASPHALT COVERED. NEW ASPHALT IN 2021. BREAKING UP AT DECK JOINTS, FWD AND REAR.

Approach Embankment (EA)

WASHING OUT @ RT FWD AND REAR WINGWALL. REPAIRED IN 2017.

Inspector Comments - General Appraisal

Superstructure

Slab (SF)

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Substructure

Abutment Walls (LF)

REPAIRED AND SEALED '13. SHALLOW SPALLS AT FWD AND REAR. SMALL SPALL ON RT FWD WINGWALL. **2023 INSP: CS2- 10 LF OF SHALLOW SPALLS AT FWD CONSTRUCTION JOINT. 12 LF OF SHALLOW SPALL AT REAR CONSTRUCTON JOINT (22 LF).**

Pier Caps (LF)

MINOR CRACKS AND MINOR SEEPAGE.

Substructure Scour (EA)

UNDERWATER INSPECTION IN 1997. PROBED DURING LOW WATER 10/27/14 HIT TOP OF FOOTER THRU 2' OF MUCK CENTER PIER. WATER HIGH IN 2018, 19.

2022: Pier

2:The

submerged portions of the pier exhibited light scaling up to 1/16 in. deep from the channel bottom to 2 in. above the waterline. Heavy timber debris accumulation consisting of a tree with diameter up to 2 ft and approximately 50 ft long was observed resting on the upstream nose and all along the east face apron of the pier. The footing on the east face of the pier was exposed from the upstream nose to the downstream nose. At the upstream nose, the footing was exposed for up to 1.8 ft vertical before getting covered by timber debris. The footing was exposed 1.3 ft vertical at the midpoint of the east face of the pier. A scour depression was observed on the west face of the pier.

3: The

submerged portions of the pier exhibited light scaling up to 1/16 in. deep from the channel bottom to 2 in. above the waterline.

Slope Protection (EA)

NEW STONE PROTECTION '13.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

2021INSP: LARGE LOG AGAINST FWD PIER AND LAYING ON FWD SLOPE.

Channel

Scour Critical