

Inspector: Banaszak, Ken  
 Inspection Date: 07/20/2022

Structure Number: 1803379  
 Facility Carried: SR 43 (AURORA RD.)

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00043-0480 (1803379)**

2: District 72928 - SOLON (CUY county)  
 District 12

5A: Inventory Route 1 00043

21: Major Maint A/B 01 - State Highway Agency /  
 225 Routine Main A/B 04 - City or Municipal Highway /  
 Agency  
 221 Inspection A/B 01 - State Highway Agency /  
 220: Inv. Location DISTRICT 12

7: Facility On SR 43 (AURORA RD.)  
 6: Feature Ints BALDWIN CRK 1.4 MI S 175  
 9: Location 1.38 MI. S. OF JCT SR 175  
 Lat, Lon 41.397031, -81.465014

**Condition**

**58: Deck 4 - Poor Condition**  
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)  
 58.02 Joint N- Not Applicable  
**59: Superstructure 4 - Poor Condition**  
 59.01 Paint & PCS N - Not Applicable  
**60: Substructure 7 - Good Condition**  
**61: Channel 6**  
 61.01 Scour 7 - Good  
**62: Culverts N - Not Applicable**  
**67.01 GA 4**

**Structure Type**

43: Bridge Type 1 - Concrete  
 07 - Frame (except frame culverts)  
 N- Not Applicable  
 45: Spans Main / Approach 1 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck X - Not Applicable  
 414A Joint Type 1 N - None  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 6 - Bituminous  
 N- Not Applicable

**Appraisal**

Sufficiency Rating 66.0 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 5 - Scour within limits of footing or piles  
 71: Waterway Adequacy 8 - Bridge Above Approaches

422: WS Date 01/01/1992  
 423: WS Thick (in) 2.0  
 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 4 - Spread Footing (on soil)  
 533: Foundn: Abut Rear 4 - Spread Footing (on Soil)  
 536: Foundn: Pier 1 N - None (Such as most Culverts)  
 539: Foundn: Pier 2 N - None (Such as most Culverts)

**Geometric**

48: Max Span Length (ft) 30.0  
 49: Structure Length (ft) 32.0  
 52: Deck Width, Out-To-Out (ft) 56.0  
 424: Deck Area (sf) 1792  
 32: Appr Roadway Width (ft) 40.0  
 51: Road Width, Curb-Curb (ft) 40.0  
 50A: Curb/SW Width: Left (ft) 5  
 50A: Curb/SW Width: Right (ft) 0  
 34: Skew (deg) 22  
 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 1992 / 0000  
 42A: Service On 1 - Highway  
 42B: Service Under 5 - Waterway  
 28A: Lanes on 02  
 28B: Lanes Under 00  
 19: Bypass Length 2  
 29: ADT 13737  
 109: % Trucks (%) 9

**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 07/01/2004  
 63: Analysis Method 6 - Load Factor (LF) rating reported by  
 rating factor (RF) method using MS18

**Inspections**

90: Routine Insp. 12 Months 07/20/2022  
 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>38-Reinforced Concrete Slab</b>	3 - Mod.	1680	sq. ft.	1260	300	100	20
CS2- Some cracks. Some mottled/ wet areas. CS3- Delams & spalls with exposed rebar. Water infiltration with dripping stalactites at most joints. Mottled areas. CS4- 1st segment at inlet and outlet and 4th segment from outlet, have spalls with 4+ consecutive bars of rebar exposed.							
<b>510-Wearing Surfaces</b>		1200	sq. ft.	0	1150	50	0
CS2- Cracks some sealed. Areas of rutting. Asphalt is over 5 years old. CS3- Wide cracks. Some asphalt break up.							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	128	ft.	113	11	4	0
CS2- Minor cracks. CS3- Leaching cracks.							
<b>330-Metal Bridge Railing</b>	3 - Mod.	60	ft.	44	10	6	0
CS2- A few dents, scattered light rust. CS3- Some areas of heavy section loss to insides.							
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0

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ODOT District: District 12

**CUY-00043-0480 \_(1803379)**

Date Built: 07/01/1992

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency  
FIPS Code: 72928 - SOLON (CUY county)

Feature Inters: BALDWIN CRK 1.4 MI S 175

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

Resp A:

Insp

Resp B:

Location: DISTRICT 12

1.38 MI. S. OF JCT SR 175

Inspector

Banaszak, Ken

Inspection Date

07/20/2022

Reviewer Seif, Youssef

**Inspector Comments - Deck and Approach**

**Deck**

**Curbs/Sidewalk (LF)**

Many cracks to left sidewalk.

**Approach**

**Approach Wearing Surface (EA)**

Cracks, most sealed. Asphalt break up. Small asphalt patches in SB lane.

**Approach Embankment (EA)**

Minor erosion near forward-left & both rear wingwalls (covered with vegetation).

**Approach Guardrail (EA)**

Forward-right guardrail posts 1 & 9 are broken off. Some post rot throughout. Some misaligned spacers. Some dings and dents to both rails.

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Wingwalls (EA)**

Minor spalls to both right wingwalls.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

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**Channel Hydraulic Opening (EA)**

Vegetation, sediment & rock build up blocks as much as 20% at both ends.

**Channel**

**Scour Critical**