

Inspector: Banaszak, Ken
 Inspection Date: 06/13/2022

Structure Number: 1814835
 Facility Carried: USR 422

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00422-14.71 (1814835)

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

5A: Inventory Route 1 00422

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 12

7: Facility On USR 422
 6: Feature Ints unnamed creek
 9: Location 50 ft east of miles rd.
 Lat, Lon 41.424703235413 , -81.4853735106636

Condition	Structure Type
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58: Deck N - Not Applicable
 58.01 Wearing Surface N - Not Applicable
 58.02 Joint N - Not Applicable
59: Superstructure N - Not Applicable
 59.01 Paint & PCS N - Not Applicable
60: Substructure N - Not Applicable
61: Channel 7
 61.01 Scour 7 - Good
62: Culverts 5 - Moderate to major deterioration
67.01 GA 5

43: Bridge Type 1 - Concrete
 19 - Culvert (includes frame culverts)
 N - Not Applicable
 45: Spans Main / Approach 1 / 0
 107: Deck Type N - Not Applicable
 408: Composite Deck X - Not Applicable
 414A Joint Type 1 N - None
 414B: Joint Type 2 N - None
 108A: Wearing Surface N - NA
 N - Not Applicable

Appraisal	422: WS Date
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Sufficiency Rating 59.0 SD/FO 0 - ND
 36: Rail, Tr, Gd, Term Std N N 1 1
 72: Approach Alignment 9 - Superior to present desirable criteria
 113: Scour Critical 6 - Not yet evaluated for scour
 71: Waterway Adequacy 9 - Bridge Above Flood Water Elevations

423: WS Thick (in) 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 N - None (Such as most Culverts)
 533: Foundn: Abut Rear N - None (such as most Culverts)
 536: Foundn: Pier 1 N - None (Such as most Culverts)
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Geometric	422: WS Date
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48: Max Span Length (ft) 14.0
 49: Structure Length (ft) 20.8
 52: Deck Width, Out-To-Out (ft) 0.0
 424: Deck Area (sf) 1664
 32: Appr Roadway Width (ft) 80.0
 51: Road Width, Curb-Curb (ft) 0.0
 50A: Curb/SW Width: Left (ft) 0
 50A: Curb/SW Width: Right (ft) 0
 34: Skew (deg) 39
 33: Bridge Median 1 - Open median
 54B: Min Vert Underclearance (ft) 0
 336A: Min Vert Clrnce IR Cardinal (ft) 99
 336B: Min V Clr IR Non-Cardinal (ft) 99
 578: Culvert Length (ft) 396

Age and Service	422: WS Date
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27: Year Built/ 106 Rehab 1975 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 06
 28B: Lanes Under 00
 19: Bypass Length 6
 29: ADT 75307
 109: % Trucks (%) 5

Load Posting	Inspections
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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 01/05/2016
 63: Analysis Method 0 - Field evaluation and documented engineering judgment

Inspections	Months
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90: Routine Insp. 12 06/13/2022
 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
 Inspector Banaszak, Ken

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
241-Reinforced Concrete Culvert	3 - Mod.	396	ft.	0	180	104	112
<p>Note: culvert consists of 49 pipe segments (78" diameter x 8' long) with two 2' connectors.</p> <p>CS2- Some small areas of shallow exposed wire mesh, rust stains. Cracks.</p> <p>CS3- Concrete deterioration along water line & to invert thru out; 13 segments of 360° wire mesh exposed, spalls and delams.</p> <p>CS4- Entire segment's invert is deteriorated with severed wire mesh to 14 segments.</p>							
835-Culvert End Treatment	3 - Mod.	2	each	1	1	0	0
<p>CS2- Outlet endwalls tipped out as much as 1".</p>							
845-Roadway Over Structure	3 - Mod.	1	each	1	0	0	0
<p>Culvert is actually under slope protection for bridges above it.</p>							

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ODOT District: District 12

CUY-00422-14.71_(1814835)

Date Built: 07/01/1975

Major Maint: 01 - State Highway Agency

Facility Carried: USR 422

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: unnamed creek

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 72928 - SOLON (CUY county)

Location: DISTRICT 12

50 ft east of miles rd.

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date

06/13/2022

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Note: Culvert runs under forward slope of SFN 1814842 & SFN 1814850, cracks to concrete slope.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

Note: Channel bottom drops 2.5' at outlet.

Channel

Channel Alignment (LF)

Channel splits at inlet.

Channel Protection (LF)

Cracks to concrete at inlet, as much as 6" of inlet channel protection toe exposed to flowing water.

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Scour Critical