Inspector:Ropelewski,RobertStructure Number:1807994Inspection Date:06/07/2023Facility Carried:IR 90 EB AND WB

## **Ohio Bridge Inspection Summary Report**

# CUY-00090-0206 (1807994)

22   Distric District Di
21: Major Maint A/B
221 Inspection A/B
Structure Type   Structure Structure   Structure Structure   N - Not Applicable   N - Not Applicable   N - Not Applicable   N - Not Applicable   Structure Structure   N - Not Applicable   N - Not Applicable   Structure Structure   N - Not Applicable   Structure Structur
Structure Type
S8: Deck   N - Not Applicable   58:01 Wearing Surface   N - Not Applicable   N - Not Applicable   19 - Culvert (includes frame culverts)   N - Not Applicable   19 - Culvert (includes frame culverts)   N - Not Applicable   19 - Culvert (includes frame culverts)   N - Not Applicable   107: Deck Type   N - None   108A: Wearing Surface   N - Not Applicable   107: Deck Type   N - None   108A: Wearing Surface   N - Not Applicable   107: Deck Type   N - None   108A: Wearing Surface   N - Not Applicable   107: Deck Type   N - None   108A: Wearing Surface   N - Not Applicable   107: Deck Type   N - None   108A: Wearing Surface   N - None   108A: Wearing Surf
58.01 Wearing Surface 58.02 Joint         N - Not Applicable N - Not Applicable         19 - Culvert (includes frame culverts) N- Not Applicable           59: Superstructure 59: Ol Paint & PCS N - Not Applicable         N - Not Applicable 107: Deck Type N - Not Applicable         N - Not Applicable N - Not Applicable         45: Spans Main / Approach N - Not Applicable         N - Not Applicable N - Not Applicable           60: Substructure N - Not Applicable         408: Composite Deck N - Not Applicable         X - Not Applicable N - None         N - Not Applicable N - None           61: Channel 61: Channel 61: Channel 62: Culverts 62: Culverts 55 - Moderate to major deterioration 62: Culverts 55 - Moderate to major deterioration 67: Ol GA 5         414A Joint Type 1 N - None Na: Wearing Surface N - Not Applicable N - None N - None N - None N - None N - None N - Not Applicable N - None N - None N - None N - None N - None N - None or Not Applicable N - None or Not Applicable
58.01 Wearing Surface 58.02 Joint         N - Not Applicable N - Not Applicable         19 - Culvert (includes frame culverts) N- Not Applicable           59: Superstructure 59: Ol Paint & PCS N - Not Applicable         N - Not Applicable 107: Deck Type N - Not Applicable         N - Not Applicable N - Not Applicable         45: Spans Main / Approach N - Not Applicable         N - Not Applicable N - Not Applicable           60: Substructure N - Not Applicable         408: Composite Deck N - Not Applicable         X - Not Applicable N - None         N - Not Applicable N - None           61: Channel 61: Channel 61: Channel 62: Culverts 62: Culverts 55 - Moderate to major deterioration 62: Culverts 55 - Moderate to major deterioration 67: Ol GA 5         414A Joint Type 1 N - None Na: Wearing Surface N - Not Applicable N - None N - None N - None N - None N - None N - Not Applicable N - None N - None N - None N - None N - None N - None or Not Applicable N - None or Not Applicable
59: Superstructure         N - Not Applicable         45: Spans Main / Approach         1 / 0         0         0         45: Spans Main / Approach         1 / 0         0         0         45: Spans Main / Approach         1 / 0         0         0         0         40: Composite Deck         X - Not Applicable         X - Not Applicable         0
59.01 Paint & PCS         N - Not Applicable         107: Deck Type         N - Not Applicable           60: Substructure         N - Not Applicable         408: Composite Deck         X - Not Applicable           61: Channel         7         414A Joint Type 1         N - None           61: Ol Scour         7 - Good         414B: Joint Type 2         N - None           62: Culverts         5 - Moderate to major deterioration         108A: Wearing Surface         N - NA           67:01 GA         5         Moderate to major deterioration         422: WS Date           Sufficiency Rating         72.0         SD/FO 0 - ND         482: WS Thick (in)         0.0           36: Rail, Tr, Gd, Term Std         N N N N N N N N N N N N N N N N N N N
59.01 Paint & PCS         N - Not Applicable         107: Deck Type         N - Not Applicable           60: Substructure         N - Not Applicable         408: Composite Deck         X - Not Applicable           61: Channel         7         414A Joint Type 1         N - None           61: Ol Scour         7 - Good         414B: Joint Type 2         N - None           62: Culverts         5 - Moderate to major deterioration         108A: Wearing Surface         N - NA           67:01 GA         5         Moderate to major deterioration         422: WS Date           Sufficiency Rating         72.0         SD/FO 0 - ND         482: WS Thick (in)         0.0           36: Rail, Tr, Gd, Term Std         N N N N N N N N N N N N N N N N N N N
60: Substructure         N - Not Applicable         408: Composite Deck         X - Not Applicable           61: Channel         7         414A Joint Type 1         X - None           62: Culverts         5 - Moderate to major deterioration         414B: Joint Type 2         N - None           67.01 GA         5         Moderate to major deterioration         108A: Wearing Surface         N - NA           Sufficiency Rating         72.0         SD/FO 0 - ND         422: WS Date         422: WS Date           Sufficiency Rating         72.0         SD/FO 0 - ND         482: Protective Coating         N - None or Not Applicable           T2: Approach Alignment         8 - Equal to present desirable criteria         483: PCS Date         483: PCS Date           T1: Waterway Adequacy         8 - Bridge Above Approaches         528: Foundn: Abut Fwd         N - None         N - None           Geometric           48: Max Span Length (ft)         17.0         536: Foundn: Abut Rear         N - None (Such as most Culver           49: Structure Length (ft)         17.0         536: Foundn: Pier 1         N - None (Such as most Culver           52: Deck Width, Out-To-Out (ft)         0.0         42A: Service On         1 - Highway           32: Appr Roadway Width (ft)         72.0
Alian
148   Joint Type 2
62: Culverts         5 - Moderate to major deterioration         108A: Wearing Surface         N - NA           67.01 GA         5         422: WS Date         422: WS Date           Sufficiency Rating         72.0         SD/FO 0 - ND         482: Protective Coating         N - None or Not Applicable           36: Rail, Tr, Gd, Term Std         N N N N N N N N N N N N N N N N N N N
Appraisal   Sufficiency Rating   72.0   SD/FO 0 - ND   36: Rail, Tr, Gd, Term Std   N   N   N   N   N   N   N   N   N
Sufficiency Rating   72.0   SD/FO 0 - ND   23: WS Date   423: WS Thick (in)   0.0   482: Protective Coating   N - None or Not Applicable   483: PCS Date   453: Bearing Type 1   N - None (Such as most Culver   533: Foundn: Abut Fwd   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 2   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 1   N - None (Such as most Culver   539: Foundn: Pier 1
Sufficiency Rating         72.0         SD/FO 0 - ND         423: WS Thick (in)         0.0           36: Rail, Tr, Gd, Term Std         N         N         N         N         N         N         N         N - None         N - None or Not Applicable           72: Approach Alignment         8 - Equal to present desirable criteria         483: PCS Date         483: PCS Date         N - None         485: Bearing Type 1         N - None         N - None         485: Bearing Type 2         N - None         N - None         N - None         528: Foundn: Abut Fwd         N - None (Such as most Culver         N - None (Such as most Culver         533: Foundn: Abut Rear         N - None (Such as most Culver         N - None (Such as most Culver         536: Foundn: Pier 1         N - None (Such as most Culver         N - None (Such as most Culver         539: Foundn: Pier 1         N - None (Such as most Culver         N - None (Such as most Culver         539: Foundn: Pier 2         N - None (Such as most Culver         N - None (Such as most Culver         539: Foundn: Pier 2         N - None (Such as most Culver         N - None (Such as most Culver         259: Foundn: Pier 1         N - None (Such as most Culver         270: Year Built/ 106 Rehab         1971 / 0000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000
36: Rail, Tr, Gd, Term Std N N N N N N N N N N N N N N N N N N N
72: Approach Alignment         8 - Equal to present desirable criteria         483: PCS Date           113: Scour Critical         8 - Stable for scour conditions         71: Waterway Adequacy         8 - Bridge Above Approaches         455: Bearing Type 1         N - None           48: Max Span Length (ft)         17.0         536: Foundn: Abut Fwd         N - None (Such as most Culver 533: Foundn: Abut Rear N - None (Such as most Culver 539: Foundn: Pier 1 N - None (Such as most Culver 539: Foundn: Pier 2 N - None (Such as
113: Scour Critical 8 - Stable for scour conditions 71: Waterway Adequacy 8 - Bridge Above Approaches  Geometric  48: Max Span Length (ft) 17.0 536: Foundn: Pier 1 N - None (Such as most Culver S39: Foundn: Pier 1 N - None (Such as most Culver S39: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S49: Foundn: Pier 2 N - None (Such as most Culver S4
71: Waterway Adequacy 8 - Bridge Above Approaches    455: Bearing Type 2   N - None
Semmetric   Semm
48: Max Span Length (ft) 17.0 536: Foundn: Pier 1 N - None (Such as most Culver 49: Structure Length (ft) 17.0 539: Foundn: Pier 2 N - None (Such as most Culver 52: Deck Width, Out-To-Out (ft) 0.0 Age and Service 27: Year Built/ 106 Rehab 1971 / 0000 51: Road Width, Curb-Curb (ft) 0.0 42A: Service On 1 - Highway 50A: Curb/SW Width: Left (ft) 0 42B: Service Under 5 - Waterway 50A: Curb/SW Width: Right (ft) 0 28A: Lanes on 04 34: Skew (deg) 30 28B: Lanes Under 00 33: Bridge Median 0 - No median 19: Bypass Length 0 54B: Min Vert Underclearance (ft) 0 29: ADT 85748
49: Structure Length (ft)       17.0       539: Foundn: Pier 2       N - None (Such as most Culver 2)         52: Deck Width, Out-To-Out (ft)       0.0       Age and Service         424: Deck Area (sf)       1224       27: Year Built/ 106 Rehab 1971 / 0000         51: Road Width, Curb-Curb (ft)       0.0       42A: Service On 1 - Highway         50A: Curb/SW Width: Left (ft)       0       42B: Service Under 5 - Waterway         50A: Curb/SW Width: Right (ft)       0       28A: Lanes on 04         34: Skew (deg)       30       28B: Lanes Under 00         33: Bridge Median       0 - No median 19: Bypass Length 0       0         54B: Min Vert Underclearance (ft)       0       29: ADT 85748
52: Deck Width, Out-To-Out (ft)         0.0         Age and Service           424: Deck Area (sf)         1224         27: Year Built/ 106 Rehab         1971 / 0000           32: Appr Roadway Width (ft)         72.0         27: Year Built/ 106 Rehab         1971 / 0000           51: Road Width, Curb-Curb (ft)         0.0         42A: Service On         1 - Highway           50A: Curb/SW Width: Left (ft)         0         42B: Service Under         5 - Waterway           50A: Curb/SW Width: Right (ft)         0         28A: Lanes on         04           34: Skew (deg)         30         28B: Lanes Under         00           33: Bridge Median         0 - No median         19: Bypass Length         0           54B: Min Vert Underclearance (ft)         0         29: ADT         85748
Age and Service         424: Deck Area (sf)       1224         32: Appr Roadway Width (ft)       72.0         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)       30         33: Bridge Median       0 - No median         54B: Min Vert Underclearance (ft)       0
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50A: Curb/SW Width: Right (ft)       0       28A: Lanes on       04         34: Skew (deg)       30       28B: Lanes Under       00         33: Bridge Median       0 - No median       19: Bypass Length       0         54B: Min Vert Underclearance (ft)       0       29: ADT       85748
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336A: Min Vert Clrnce IR Cardinal (ft) 99 109: % Trucks (%) 5
336B: Min V Clr IR Non-Cardinal (ft) 0 Inspections
578: Culvert Length (ft) 216
Load Posting         90: Routine Insp.         12         06/07/2023
41: Op/Post/Closed A - Open 92A: FCM Insp. N 0
70: Posting 5 - Equal to or above legal loads 92B: Dive Insp. N 0
70.01: Date 92C: Special Insp. N 0
70.02: Sign Type 92D: UBIT Insp. N 0
734: Percent Legal (%) 150 92E: Drone Insp. N 0
704: Analysis Date 07/01/2002 Inspector Ropelewski, Robert
63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

**Inspector:** Ropelewski,Robert **Structure Number:** 1807994

Inspection Date: 06/07/2023 Facility Carried: IR 90 EB AND WB

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240-Steel Culvert	3 - Mod.	216	ft.	0	146	64	6
	CS2 - Areas of rusting section loss, heavier near invert. 2' diameter bulge with 6" max downward vertical displacement of CMP at 12:00 (15' from outlet) & 1' diameter bulge at 1:00 (16' from outlet). Water infiltration with efflorescence & rusting at some bolt holes. Missing bolt at 12:00 (125' from inlet).  CS3 - Areas of heavier rusting section loss, mostly near invert and bolt connections.  CS4 - Through holes in CMP where 6" diameter conduit enters at 1:00 (100' from inlet). Two 3" diameter thru holes in CMP at 11:30 (15' upstream from 6" conduit).						
835-Culvert End Treatment	3 - Mod.	2	each	0	2	0	0
	CS2 - Cracks, spalls to east half of inlet & outlet headwalls at CMP. Other deterioration to inlet walls.						
845-Roadway Over Structure	3 - Mod.	1	each	0	1	0	0
	CS2 - Cracks.						

Structure Number: Inspector: Ropelewski, Robert 1807994

Facility Carried: IR 90 EB AND WB

06/07/2023 IR 90 EB AND WB **Inspection Date: Facility Carried:** 

CUY-00090-0206 \_(1807994) ODOT District: District 12

Traffic On: 1 - Highway Insp. 01 - State Highway Agency Resp A: Feature Inters: CAHOON CREEK Traffic Under: 5 - Waterway Routine Maint: 01 - State Highway Agency

07/01/1971

Date Built:

Rehab Date:

Insp Resp B:

FIPS Code: 83622 - WESTLAKE (CUY county) 1.13 MI E.BASSET RD INTER Location: DISTRICT 12

> Inspection Date 06/07/2023 Reviewer Seif, Youssef Inspector Ropelewski, Robert

## <u>Inspector Comments - Deck and Approach</u>

### Deck

### **Approach**

## **Inspector Comments - General Appraisal**

## <u>Superstructure</u>

#### <u>Substructure</u>

#### Culvert

### **Culvert Scour**

Major Maint: 01 - State Highway Agency

Stream drops 12", approximately 10' north of outlet.

## **Channel Hydraulic Opening**

Rocks & sediment inside culvert and hanging vegetation at inlet block <5%.

## **Inspector Comments - Waterway**

**Waterway Adequacy** 

**Channel** 

**Scour Critical** 

**Inspector:** Robert Ropelewski **Structure Number:** 1807994

Inspection Date: 06/07/2023 Facility Carried: IR 90 EB AND WB

**Bridge Inspection Report** 

# **Pictures**