

Inspector: Persanyi,Andrea
 Inspection Date: 09/20/2022

Structure Number: 1810005
 Facility Carried: IR 480

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00480-17.080 (1810005)

2: District 09274 - BROOKLYN HEIGHTS (CUY county)
 District 12

5A: Inventory Route 1 00480

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 IR 480
 6: Feature Ints Creek
 9: Location .29 mi E of Lancaster
 Lat, Lon 41.4096936219322 , -81.6610330012948

Condition

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 6
 61.01 Scour 7 - Good
62: Culverts 4 - Large spalls, heavy scaling, wide cracks
67.01 GA 4

Structure Type

43: Bridge Type 3 - Steel
 19 - Culvert (includes frame culverts)
 N- Not Applicable
 45: Spans Main / Approach 1 / 0
 107: Deck Type N - Not Applicable
 408: Composite Deck
 414A Joint Type 1 N - None
 414B: Joint Type 2 3 - Compression Seal
 108A: Wearing Surface N - NA
 N- Not Applicable

Appraisal

Sufficiency Rating 43.0 SD/FO 1 - SD
 36: Rail, Tr, Gd, Term Std N N 1 N
 72: Approach Alignment 8 - Equal to present desirable criteria
 113: Scour Critical 6 - Not yet evaluated for scour
 71: Waterway Adequacy 9 - Bridge Above Flood Water Elevations

Age and Service

422: WS Date
 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

48: Max Span Length (ft) 11.3
 49: Structure Length (ft) 11.3
 52: Deck Width, Out-To-Out (ft) 0.0
 424: Deck Area (sf) 2994.5
 32: Appr Roadway Width (ft) 265.0
 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) 46
 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) 0
 578: Culvert Length (ft) 522

Inspections

27: Year Built/ 106 Rehab 1977 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 10
 28B: Lanes Under 00
 19: Bypass Length 6
 29: ADT 146531
 109: % Trucks (%) 5

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
 63: Analysis Method 5 - No rating analysis or evaluation performed

Inspections

90: Routine Insp. 12 Months 09/20/2022
 92A: FCM Insp. N 0
 92B: Dive Insp. N 0
 92C: Special Insp.
 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
240-Steel Culvert	3 - Mod.	522	ft.	0	277	60	185
<p>CS2- Areas of surface rusting. Bituminous spray coating on invert has worn away. Areas of light leaking water with efflorescence at some seams. Slight elliptical shape at outlet.</p> <p>CS3- 6' section of panel 350' from outlet has missing and cocked fasteners. Few other missing fasteners. Rusting section loss along invert throughout, heavier at inlet.</p> <p>CS4- Areas of rusting through holes as large as 1.5' to invert throughout. 16" rusting through hole at 5:00 at outlet. Four rusting through holes as large as 4" at 5:00 seam 350' from outlet. Pin hole size rusting through holes scattered throughout that leak water and have rust colored efflorescence. 9.5' section of tears as long as 3.5" along 9:00 seam approximately 75' from inlet. Damage / tear at 12:00, 100' from outlet.</p>							
835-Culvert End Treatment	3 - Mod.	1	each	0	1	0	0
<p>CS2- Left half of outlet headwall is crumbling and tips away from culvert pipe. Right half has large area of concrete deterioration.</p>							
845-Roadway Over Structure	3 - Mod.	2	each	0	2	0	0
<p>CS2- Cracks.</p>							

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ODOT District: District 12
Major Maint: 01 - State Highway Agency
Routine Maint: 01 - State Highway Agency
FIPS Code: 09274 - BROOKLYN HEIGHTS (CUY county)

Facility Carried: IR 480
Feature Inters: Creek
Location: DISTRICT 12
Inspection Date: 09/20/2022

Traffic On: 1 - Highway
Traffic Under: 5 - Waterway
.29 mi E of Lancaster
Inspector: Persanyi,Andrea
Reviewer: Seif, Youssef

Date Built: 07/01/1977
Rehab Date:
Insp: 01 - State Highway Agency
Resp A:
Insp
Resp B:

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Cracks.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Culvert Scour

Undermining of outlet channel protection.

Confined space entry JM, AP

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection

Outlet channel protection is thru cracked as wide as 1.5" in two locations (concrete is in three pieces but still in place).

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Channel Hydraulic Opening

Minor debris blocks <1%

Scour Critical

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Pictures