

Inspector: Ropelewski,Robert

Inspection Date: 09/14/2023

Structure Number: 1800213

Facility Carried: IR 90

Ohio Bridge Inspection Summary Report

CUY-00090-1855 (1800213)

2: District 16000 - CLEVELAND (CUY county)
District 12

5A: Inventory Route 1 00090

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 90
6: Feature Ints E40TH ST STORM SEWER
9: Location .35 E. OF JCT. SR-2
Lat, Lon 41.520269 ,-81.670833

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	5 - Moderate to major deterioration
67.01 GA	5

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

Appraisal	
Sufficiency Rating	66.6 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	N N N N
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	8 - Stable for scour conditions
71: Waterway Adequacy	8 - Bridge Above Approaches

422: 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
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)	6.0
49: Structure Length (ft)	15.0
52: Deck Width, Out-To-Out (ft)	0.0
424: Deck Area (sf)	1710
32: Appr Roadway Width (ft)	114.0
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)	0
33: Bridge Median	3 - Closed median with non-mountable barriers
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)	450

Age and Service	
27: Year Built/ 106 Rehab	1953 / 0000
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	09
28B: Lanes Under	00
19: Bypass Length	0
29: ADT	110508
109: % Trucks (%)	4

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	07/01/2013
63: Analysis Method	D - Assigned rating based on Load Factor Design (LFD) reported by Rating Factor (RF) using MS18 loading

Inspections		
	Months	
90: Routine Insp.	12	09/14/2023
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
241-Reinforced Concrete Culvert	3 - Mod.	450	ft.	184	151	115	0
<p>Full depth concrete patches. Areas of honeycombing.</p> <p>CS2 - Areas of water infiltration with light efflorescence & stalactites. Cracks. 2"w x2"d void at base of West wall of West cell near inlet</p> <p>CS3 - One 4" diameter hole plugged by wood in each cell. Two 10" diameter holes in ceiling with guardrail posts in them. A 1/4" wide crack in both cells. Areas of water infiltration with leaching rust stains. Areas of water infiltration with heavy efflorescence & stalactites. Delams. Many spalls with rebar exposure with rusting section loss. Concrete deterioration with 360° rebar exposure to divider wall at CMP transition. Four locations of rust severed rebar in ceiling ~ east cell - 80' & 150' north of entry manhole, West cell - 75' & 100' south of CMP transition.</p>							
845-Roadway Over Structure	3 - Mod.	2	each	1	1	0	0
<p>Mainline New at 2023 inspection</p> <p>CS2- Cracks to south marginal.</p>							

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ODOT District: District 12

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Date Built: 07/01/1953

Major Maint: 01 - State Highway Agency

Facility Carried: IR 90

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: E40TH ST STORM SEWER

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

.35 E. OF JCT. SR-2

Insp
Resp B:

Inspector

Ropelewski,Robert

Inspection Date 09/14/2023

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Confined space entry performed using ladder in 2023.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening

Some areas of concrete & brick as large as 1.5 cubic yards & wood debris block <10% of west cell near CMP transition. Evidence of flowing full.

Channel

Scour Critical

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Pictures