

Inspector: Gerstenslager,Michael
 Inspection Date: 10/20/2022

Structure Number: 1801651
 Facility Carried: WARNER RD

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00014-0538 (1801651)

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

5A: Inventory Route 1 00014

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 WARNER RD
 6: Feature Ints NSC RR @ WARNER ROAD
 9: Location 1 MI S HARVARD AVE
 Lat, Lon 41.444997 , -81.624181

Condition		Structure Type	
58: Deck	5 - Fair Condition	43: Bridge Type	3 - Steel
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	1 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	U - Unknown
61: Channel	N	414A Joint Type 1	N - None
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
			1- Super Plasticized
67.01 GA	7	422: WS Date	10/15/2008

Appraisal			
Sufficiency Rating	78.1	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	0	0 0
72: Approach Alignment	8 - Equal to present desirable criteria		
113: Scour Critical	N - Not over waterway		
71: Waterway Adequacy	N - Not Applicable		

423: WS Thick (in)	2.0
482: Protective Coating	4 - Paint System B
483: PCS Date	01/01/1986
453: Bearing Type 1	2 - Rockers & Bolsters
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)	84.0
49: Structure Length (ft)	89.0
52: Deck Width, Out-To-Out (ft)	51.1
424: Deck Area (sf)	4547.9
32: Appr Roadway Width (ft)	40.0
51: Road Width, Curb-Curb (ft)	40.0
50A: Curb/SW Width: Left (ft)	2.8
50A: Curb/SW Width: Right (ft)	6.2
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	21.73
336A: Min Vert Clrnce IR Cardinal (ft)	16
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service		
27: Year Built/ 106 Rehab	1961	/ 0000
42A: Service On	5 - Highway-pedestrian	
42B: Service Under	2 - Railroad	
28A: Lanes on	03	
28B: Lanes Under	00	
19: Bypass Length	2	
29: ADT	5016	
109: % Trucks (%)	11	

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	07/01/1973

Inspections		
	Months	
90: Routine Insp.	12	10/20/2022
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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63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	4547	sq. ft.	2210	2291	46	0
CS 2 - Transverse cracks. Several full depth repairs. Concrete patch to left edge near mid-span. CS 3 - Spalls & delams. Many mottled areas.							
510-Wearing Surfaces		3560	sq. ft.	3370	190	0	0
CS 2 - A few cracks.							
107-Steel Open Girder/Beam	3 - Mod.	957	ft.	233	714	10	0
CS 2 - Surface rust. Many scrapes to lower flanges over railroad tracks. CS 3 - Areas of minor rusting section loss. Note: 6" channel for x-frames welded to webs in bays 1 & 2.							
515-Steel Protective Coating		4141	sq. ft.	0	3341	800	0
CS 2 - Peeling & faded paint throughout. CS 3 - Surface rust.							
215-Reinforced Concrete Abutment	3 - Mod.	103	ft.	45	51	7	0
CS 2 - Other leaching cracks. Many large concrete patches with cracks. Rust stains. CS 3 - Vertical crack as wide as 5/8" in forward abutment below beam 7. Delaminated areas. A few spalls.							
311-Movable Bearing	3 - Mod.	11	each	0	8	3	0
CS 2 - Surface rust. CS 3 - Pack rust. Forward rocker 11 engulfed in concrete debris.							
313-Fixed Bearing	3 - Mod.	11	each	0	6	5	0
CS 2 - Surface rust. CS 3 - Pack rusting and sheeting.							
321-Reinforced Concrete Approach Slab	3 - Mod.	2000	sq. ft.	0	1900	100	0
CS 2 - Settlement to both slabs with bounce onto bridge. CS 3 - Cracks/minor concrete break up at joint along forward approach pavement.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	178	ft.	90	85	3	0
CS 2 - Rust stains. Patches to top of parapet walls. CS 3 - Spalls & delams. Disconnected post at rear-left. A few areas of torn & damaged fence fabric. Missing post & bottom rail at rear-right. Note: right pedestrian fence and all posts have been removed.							
815-Drainage	3 - Mod.	2	each	2	0	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
830-Abutment Backwall	3 - Mod.	103	ft.	71	26	6	0
	CS 2 - Delams. CS 3 - Forward corners are spalled & breaking up. Small void at forward-right.						
840-Approach Slab: Termination or Joint	3 - Mod.	104	ft.	62	28	14	0
	CS 2 - Cracks. CS 3 - Asphalt patches, break up and wide cracks along forward slab.						

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ODOT District: District 12

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Date Built: 07/01/1961

Major Maint: 01 - State Highway Agency

Facility Carried: WARNER RD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway
Agency

Feature Inters: NSC RR @ WARNER ROAD

Traffic Under: 2 - Railroad

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

1 MI S HARVARD AVE

Resp A:

Insp

Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Curbs/Sidewalk (LF)

Cracks. Spalls. Concrete patches.

Bridge Railing

Significant damage to right side fence at both forward and rear. Broken posts and horizontal bars as well as torn fabric. Disconnected fence post at rear left. Hole in fabric on left side at mid span.

Approach

Approach Wearing Surface (EA)

Cracks.

Approach Termination and Joint:

Asphalt patches, break up and wide cracks along forward slab.

Approach Embankment (EA)

Cracks & minor settlement to approach walks.

Approach Guardrail (EA)

Minor collision damage to forward-right & rear-left. Some spacer rot. Guardrail not attached to approach parapet at rear-left.

Signs (EA)

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Minor rusting section loss to x-frames. Concrete diaphragm at forward-right spalled.

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Utilities (LF)

Some rusting section loss to conduits at abutments.

Substructure

Wingwalls (EA)

Leaching cracks. Minor spalls & delams. Large concrete patches with cracks.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures