Inspector: **Structure Number:** Miller, Jason 1814753 03/28/2023 IR 480 **Inspection Date: Facility Carried:**

Ohio Bridge Inspection Summary Report

CUY-0480N-0140WE (1814753)

2: DistrictDistr 80990 - V	WARRENSVILLE HTS (CUY cou	inty)	5A: Inventory Ro	oute	1	0480N
ict	•	- /	•			
12						
21: Major Maint A/B	01 - State Highway Agency	/	7: Facility On	IR 480		
225 Routine Main A/B	01 - State Highway Agency	/	6: Feature Ints	SR 175	(RICHM	OND RD)
221 Inspection A/B	01 - State Highway Agency	/	9: Location	0.4 MI.	EAST OF	F JCT I-271
220: Inv. Location DIS	STRICT 12		Lat, Lon	41.4292	247	,-81.497872

221 Inspection A/B 01	- State Highway Agency /	9: Location 0.4 MI. EAST OF JCT I-271			
220: Inv. Location DISTR	ICT 12	Lat, Lon 41.429247	,-81.497872		
	Condition	Str	ucture Type		
58: Deck	6 - Satisfactory Condition	43: Bridge Type 4 - Ste	eel continuous		
58.01 Wearing Surface	7 - Good (1% distress)	02 - S	tringer/Multi-beam or Girder		
58.02 Joint	N- Not Applicable	N- No	t Applicable		
59: Superstructure	7 - Good Condition	45: Spans Main / Approa	nch 3 / 0		
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place		
60: Substructure	6 - Satisfactory 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)		
67.01 GA	6		2- MicroSilica		
	Appraisal	422: WS Date	07/01/2002		
Sufficiency Rating	96.0 SD/FO 0 - ND	423: WS Thick (in)	1.2		
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	6 - Galvanized		
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	01/01/1992		
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	0 - Other		
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None		

Sufficiency Rating	96.0	SD/FO 0 -	עמו	` '	
36: Rail, Tr, Gd, Term Std	1 1	1	1	482: Protective Coating	6 - Galvanized
72: Approach Alignment 113: Scour Critical	8 - Equal to p	waterway	ble criteria	483: PCS Date 453: Bearing Type 1 455: Bearing Type 2	01/01/1992 0 - Other N - None
71: Waterway Adequacy N - Not Applicable		528: Foundn: Abut Fwd	U - Unknown		
	Geometric			☐ 533: Foundn: Abut Rear	U - Unknown
48: Max Span Length (ft)		70.0		536: Foundn: Pier 1	U - Unknown
49: Structure Length (ft)		142.0		539: Foundn: Pier 2	U - Unknown
52: Deck Width, Out-To-Out	(ft)	43.4		Ama	and Comitoe
424: Deck Area (sf)		6162.8		Age	and Service

48: Max Span Length (ft)	70.0
49: Structure Length (ft)	142.0
52: Deck Width, Out-To-Out (ft)	43.4
424: Deck Area (sf)	6162.8
32: Appr Roadway Width (ft)	24.0
51: Road Width, Curb-Curb (ft)	39.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
50A: Curb/SW Width: Right (ft) 34: Skew (deg)	0 8
8 ()	-
34: Skew (deg)	8
34: Skew (deg) 33: Bridge Median	8 0 - No median
34: Skew (deg) 33: Bridge Median 54B: Min Vert Underclearance (ft)	8 0 - No median 16

	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

63: Analysis Method	7 - Allowable Stress (AS) rating reported
,	by rating factor (RF) method using MS18
	loading.

536: Foundn: Pier 1	U - Unknown
539: Foundn: Pier 2	U - Unknown

27: Year Built/ 106 Rehab	1971 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	02
19: Bypass Length	0
29: ADT	6475
109: % Trucks (%)	3

Inspections								
90: Routine Insp.		Months 12	03/28/2023					
92A: FCM Insp.	N	0						
92B: Dive Insp.	Ν	0						
92C: Special Insp.	N	0						

0

0

Inspector Miller, Jason

92D: UBIT Insp.

92E: Drone Insp.

Inspector:Miller, JasonStructure Number:1814753Inspection Date:03/28/2023Facility Carried:IR 480

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	6168	sq. ft.	5403	710	55	0
	CS2- Some tra	nsverse cra	acks, ep	oxy smeared	areas throu	ghout.	
	CS3- Some spa	alls.					
510-Wearing Surfaces		5538	sq. ft.	4738	800	0	0
	CS2- Cracks, m	nostly trans	verse.				
107-Steel Open Girder/Beam	3 - Mod.	710	ft.	450	250	10	0
	CS2- Surface ru & 4 over NB tra	ffic.	J	J	·	ower flanges	of beams 1
	CS3- Rusting se	ection loss	at some	embedded b	peam ends.		
515-Steel Protective Coating	CS2- Faded are	6890	sq. ft.	2790	3500	550	50
	CS3- Surface ru	S					
205-Reinforced Concrete Column	3 - Mod. CS2- P1C1- 4 S	6	each	2	1	3	0
521-Concrete Protective Coating	CS3- P1C2- 30 P1C3- 20 P2C1- 21	SF delam	sq. ft.	0	0	0	1413
321-Concrete Frotective Coating	CS4- Not effect	_	5q. ii.	0	0	U	1413
215-Reinforced Concrete Abutment	3 - Mod.	88	ft.	45	26	17	0
	Evidence of wat CS2- Cracks. A CS3- Spall that Cracks with efflo	few small o	delams.	rward bay 4.			
521-Concrete Protective Coating		176	sq. ft.	0	0	0	176
	CS4- Not effect	ive.					
234-Reinforced Concrete Pier Cap	3 - Mod.	88	ft.	64	14	10	0
	CS2- Cracks and CS3- Wide crack to south end P2	king delam	s. Break	c up to north	end of P1. S	pall with expo	osed rebar
521-Concrete Protective Coating		792	sq. ft.	0	0	0	792
	CS4- Not effect			ı	ı		
310-Elastomeric Bearing	3 - Mod.	10	each	0	10	0	0
J	CS2- Surface ru	ust, some b	ulging e	lastomeric pa	ads.		
	002 00		0 0				
312-Enclosed/Concealed Bearing	3 - Mod.	10	each	9	1	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
321-Reinforced Concrete Approach Slab	3 - Mod.	1200	sq. ft.	805	250	30	115
	Bounce off bridge	ge.					
	CS2- Cracks.						
	CS3- Broken up pothole to forward CS4- Failed aspride off bridge.	ard #2.	,		J		Ü
331-Reinforced Concrete Bridge Railing	3 - Mod.	284	ft.	63	213	8	0
	CS2- Some ver CS3- Spalls alo spalls.						er larger
521-Concrete Protective Coating		2272	sq. ft.	0	0	0	2272
	CS4- Not effect	ive.					
815-Drainage	3 - Mod.	3	each	0	1	0	2
	CS2- Partially p		pper.	ı			
840-Approach Slab: Termination or Joint	3 - Mod.	48	ft.	0	36	12	0
	CS2- Cracks						
	CS3- Wide crac	ks, some b	roken u	p asphalt are	eas.		

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ODOT District: District 12 CUY-0480N-0140WE_(1814753)

Major Maint: 01 - State Highway Agency Facility Carried: IR 480 Traffic On: 1 - Highway

Routine Maint: 01 - State Highway Agency Feature Inters: SR 175 (RICHMOND RD) Traffic Under: 1 - Highway, with or w/out pedestrian Insp. Resp A: 01 - State Highway Agency Resp

07/01/1971

Date Built:

Resp B:

Rehab Date:

IPS Code: 80990 - WARRENSVILLE HTS (CUY county) Location: DISTRICT 12 0.4 MI. EAST OF JCT I-271

Inspector Miller, Jason Inspection Date 03/28/2023 Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Cracks, some sealed at rear. A few potholes.

Approach Embankment

Erosion to forward-right (clogged catch basin near east sidewalk).

Approach Guardrail

Both right approach parapets have settled & tip out 2.5". Minor spalls at forward-left & rear-right. Minor collision damage to both rear BTAs.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Diaphragm/X-Frames

Surface rust. Minor cracks in concrete diaphragms. Bent horizontal angles in bays 1 & 4 over SB lane #2.

Fatigue

Welded cover plates at piers.

Substructure

Slope Protection

Cracks. Uneven settlement, 3 1/2" slide & buckling of forward CSP. Rear-right corner beginning to undermine at top. Areas of vegetation growing thru CSP.

Culvert

Inspector:Miller,JasonStructure Number:1814753Inspection Date:03/28/2023Facility Carried:IR 480

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures