Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00077-1575 (1806904)

2: DistrictDistr 16000 - CLEVict	/ELAND (CUY county)	5A: Inventory Route 1	00077			
	- State Highway Agency /	7: Facility On IR 77				
	- State Highway Agency /	6: Feature Ints E 14TH ST	-			
	- State Highway Agency /		. OF JCT. SR-14			
220: Inv. Location DISTRI	CT 12	Lat, Lon 41.493081				
	Condition	Str	ucture Type			
58: Deck	4 - Poor Condition	43: Bridge Type 4 - St	eel continuous			
58.01 Wearing Surface	7 - Good (1% distress)	02 - Stringer/Multi-beam or Girder				
58.02 Joint	4- Poor (heavy leaking, offset)	N- Not Applicable				
59: Superstructure	7 - Good Condition	45: Spans Main / Approach 4 / 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 N - Non-composite Construction				
61: Channel	N	414A Joint Type 1 2 - Sliding Metal Plate Angle				
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None			
62: Culverts	N - Not Applicable	108A: Wearing Surface	4 - Low Slump Concrete			
67.01 GA	6	ŭ	N- Not Applicable			
	Appraisal	422: WS Date	10/31/2004			
Sufficiency Rating	76.2 SD/FO 1 - SD	423: WS Thick (in)	1.2			
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	5 - Paint System OZEU			
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	01/01/1986			
		453: Bearing Type 1	2 - Rockers & Bolsters			
113: Scour Critical N - Not over waterway		455: Bearing Type 2	N - None			
71: Waterway Adequacy	N - Not Applicable	528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced			
10.11 0 1 1 (%)	Geometric	 533: Foundn: Abut Rear	Concrete Piles (Other diameter) 2 - Cast-in-Place reinforced			
48: Max Span Length (ft)	99.0		Concrete Piles (Other diameter)			
49: Structure Length (ft)	177.0	536: Foundn: Pier 1	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)			
52: Deck Width, Out-To-Out		539: Foundn: Pier 2	0 - Other			
424: Deck Area (sf)	15399	Age	and Service			
32: Appr Roadway Width (ft)	87.0	27: Year Built/ 106 Reha	ab 1962 / 0000			
51: Road Width, Curb-Curb	(ft) 84.0	42A: Service On	1 - Highway			
50A: Curb/SW Width: Left (f	•	42B: Service Under	1 - Highway, with or w/out pedestrian			
50A: Curb/SW Width: Right	(ft) 0	28A: Lanes on	06			
34: Skew (deg)	0	28B: Lanes Under	07			
33: Bridge Median	1 - Open median	19: Bypass Length	2			
54B: Min Vert Underclearand	ce (ft) 15	29: ADT	59893			
336A: Min Vert Clrnce IR Ca	ardinal (ft) 99	109: % Trucks (%)	19			
336B: Min V Clr IR Non-Care	dinal (ft) 0	Inci	pections			
578: Culvert Length (ft)	0	1113	Months			
l	_oad Posting	90: Routine Insp.	12 10/31/2022			
	A - Open	92A: FCM Insp. N	0			
	or above legal loads	92B: Dive Insp. N	0			
70.11 Date	. azərə logal loddə	92C: Special Insp. N	0			
70.01: Date 70.02: Sign Type		92D: UBIT Insp. N	0			
- · · · · · · · · · · · · · · · · · · ·	135	92E: Drone Insp. N	0			
- · · ·	10/31/2021	Inspector Persanyi,An	drea			
704. Miaryolo Dale	10/01/2021	opecici reisallyi,All	idi da			

Inspector: Persanyi, Andrea **Structure Number:** 1806904 10/31/2022 IR 77 Inspection Date: **Facility Carried:**

Bridge Inspection Report

6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading. 63: Analysis Method

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12-Reinforced Concrete Deck	3 - Mod.	15399	sq. ft.	11635	2204	1100	460	
	CS2- Transverse cracks.							
	CS3- Large mottled areas. Spalls with exposed rebar. Delams. Some areas of deck move independently from beams with live load.							
	CS4- Spalls with 4+ consecutive bars of rebar exposed.							
805-Wearing Surface - Monolithic Concrete		14868	sq. ft.	14098	770	0	0	
	CS2 - A few cra	cks. Shallo	w spall	in SB lane 2	at forward ex	cjt.		
107-Steel Open Girder/Beam	3 - Mod.	2284	ft.	1712	457	115	0	
	CS2- Areas of slane 2.	surface rust	. Minor	scrapes to lo	wer flanges o	of beams 11-	13 over SB	
	CS3- Rusting se	ection loss,	heavier	at beam end	ds.			
515-Steel Protective Coating		17766	sq. ft.	0	16816	800	150	
	CS2- Faded pai	int.						
	CS3- Areas of surface rust.							
	CS4- Peeling & Paint failing at beam ends.							
205-Reinforced Concrete Column	3 - Mod.	18	each	16	2	0	0	
	CS2 - delams: F	P2C3 - 4 SF	, P2C6	- 2 SF.				
215-Reinforced Concrete Abutment	3 - Mod.	188	ft.	76	94	18	0	
	CS2- Leaching	cracks. Rus	st stains					
	CS3- Delams. Spall at rear-left that runs to masonry plate. Spall with exposed rebar that runs into seat in rear bay 10.							
234-Reinforced Concrete Pier Cap	3 - Mod.	282	ft.	268	0	14	0	
	CS3 - Spalls &	delams.						
305-Assembly Joint without Seal	3 - Mod.	188	ft.	0	113	0	75	
, commente de la commentación de	CS2- Dirt, debri	s & asphalt	in joint	openings.				
	CS3- Rusting se	ection loss.	Collisio	n damage to	rear riser ba	r in NB lane	2.	
	CS4- Sections of riser bar missing along nearly entire forward joint in NB lanes, and in SB lanes 1 & 3 at forward and SB lane 2 at rear. Rusting thru hole in rear-right curb plate. Forward NB joint closed at 40° F.							
311-Movable Bearing	3 - Mod.	65	each	0	39	26	0	
	CS2- Surface ru	ıst,	-					
	CS3- Heavier with some pack rust to abutment rockers. Some shim plates at forward abutment sliding out.							
321-Reinforced Concrete Approach Slab	3 - Mod.	2175	sq. ft.	2093	82	0	0	
	CS2 - Asphalt p	avement is	breakin	ig up at expa	nsion joint in	SB lanes.		

Bridge Inspection Report

		Total		Condition	Condition	Condition	Condition
	Environment	Quantity	Units	State 1	State 2	State 3	State 4
331-Reinforced Concrete Bridge Railing	3 - Mod.	354	ft.	153	72	129	0
	CS2- Cracks.						
	CS3- Delams &	spalls.					
815-Drainage	3 - Mod.	6	each	0	0	0	6
	CS4- Plugged scuppers. Heavy debris in berms.						
830-Abutment Backwall	3 - Mod.	188	ft.	0	141	35	12
	CS2- Leaching cracks.						
	CS3- Delams. Many other spalls, some with rebar & cheese plate exposure.						
						-11 6 - 62- 3	
	CS4- 8 sf spall as deep as 6" with 360° rebar exposure in forward backwall behind right fascia. Spall with 4+ bars of exposed rebar in forward bay 8.						all behind

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Date Built:

07/01/1962

Major Maint: 01 - State Highway Agency Facility Carried: IR 77 Traffic On: 1 - Highway Rehab Date

Routine Maint: 01 - State Highway Agency Feature Inters: E 14TH ST Traffic Under: 1 - Highway, with or w/out Insp. 01 - State Highway Agency pedestrian Resp A:

pedestrian Resp A
PS Code: 16000 - CLEVELAND (CUY county) Location: DISTRICT 12 1.66 MI. N. OF JCT. SR-14 Insp
Resp B:

Inspector Persanyi,Andrea Inspection Date 10/31/2022 Reviewer Seif,Youssef

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

<u>Deck</u>

Floor

ODOT District: District 12

Spall forming over lane line between #1 & 2 lanes in bay 4. Northbound- {Lane #1 Bay 5} {Lane #2 Bays 2,3,11} Southbound- {Lane #1 Bays 8,10} {Lane #2 Bays 4,9}

Curbs/Sidewalk (LF)

Cracks. Delams. Many areas of spalls with exposed rebar / concrete deterioration.

Approach

Approach Wearing Surface (EA)

A few cracks. Minor asphalt break up along exits.

Approach Embankment (EA)

Washout in forward-right embankment which extends to guardrail posts (covered with vegetation).

Approach Guardrail (EA)

Collision damage to rear-right guardrail. Large spall with exposed rebar in rear-right concrete approach rail. Erosion around posts at forward-right (see embankment comments).

Signs (EA)

SB median bridge end marker missing.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Diaphragm/X-Frames (EA)

Areas of surface rust. Endframe rusting section loss.

Utilities (LF)

Electrical box disconnected / hanging from beam 4 at rear abutment.

Substructure

Bridge Inspection Report

Wingwalls (EA)

Spalls to rear-left.

Slope Protection (EA)

Forward concrete drainage trough breaking up below scuppers.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical