

Inspector: Erkelenz,David

Inspection Date: 08/23/2024

Structure Number: 1804685

Facility Carried: IR 71 N.B.

Ohio Bridge Inspection Summary Report**CUY-00071-1016R (1804685)**2: District 16000 - CLEVELAND (CUY county)
ict
12

5A: Inventory Route 1 00071

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 127: Facility On IR 71 N.B.
6: Feature Ints NSC RR & RTA91
9: Location .17 MI. N. OF JCT. I-480
Lat, Lon 41.421978 , -81.819903

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	15 / 0
59.01 Paint & PCS	6 - Satisfactory (5-10% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	Y - Composite Construction
61: Channel	N	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)

67.01 GA 7

Appraisal		422: WS Date	06/30/2000
Sufficiency Rating	82.5 SD/FO 2 - FO	423: WS Thick (in)	1.0
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	06/30/2000
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	2 - Rockers & Bolsters
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	C - Elastomeric (laminated)
Geometric		528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
48: Max Span Length (ft)	123.0	533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
49: Structure Length (ft)	1169.4	536: Foundn: Pier 1	8 - Steel H Piles (HP 12 x 53)
52: Deck Width, Out-To-Out (ft)	42.5	539: Foundn: Pier 2	8 - Steel H Piles (HP 12 x 53)
424: Deck Area (sf)	49699.5		
32: Appr Roadway Width (ft)	46.0		
51: Road Width, Curb-Curb (ft)	39.3		
50A: Curb/SW Width: Left (ft)	0		
50A: Curb/SW Width: Right (ft)	0		
34: Skew (deg)	0		
33: Bridge Median	0 - No median		
54B: Min Vert Underclearance (ft)	16.57		
336A: Min Vert Clrnce IR Cardinal (ft)	99		
336B: Min V Clr IR Non-Cardinal (ft)	0		
578: Culvert Length (ft)	0		

Age and Service	
27: Year Built/ 106 Rehab	1969 / 2000
42A: Service On	1 - Highway
42B: Service Under	2 - Railroad
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	2
29: ADT	41171
109: % Trucks (%)	3
Inspections	
90: Routine Insp.	Months 12
92A: FCM Insp.	Y 24
92B: Dive Insp.	N 0
92C: Special Insp.	N 0
92D: UBIT Insp.	N 0
92E: Drone Insp.	Y 24

Load Posting		Inspector	Erkelenz,David
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	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
215-Reinforced Concrete Abutment	3 - Mod.	99	ft.	23	76	0	0
	CS2 - Some cracks. Delamination under rear bay 1.						
521-Concrete Protective Coating		495	sq. ft.	457	0	0	38
	CS4 - PCS is ineffective.						
234-Reinforced Concrete Pier Cap	3 - Mod.	411	ft.	375	28	8	0
	CS2 - A few cracks. Mottled areas to bottoms of some caps. Delamination to right cantilevers of P1 & P12.						
	CS3 - Rust-leaching cracks to left cantilever of P7. Spalls with exposed rebar to left cantilevers of P1, P6, P12 & P14.						
521-Concrete Protective Coating		2355	sq. ft.	2339	0	0	16
	Most unsealed.						
	CS4 - PCS is ineffective.						
300-Strip Seal Expansion Joint	3 - Mod.	170	ft.	96	54	0	20
	CS2 - Sediment & debris in joints. Surface rust. Minor gouges to some areas.						
	CS4 - Seal torn at first hinge from rear, in span 4. Through hole to seal in lane 1 at joint over span 8. Seal pushed out of armor above forward bays 1 & 2 as well as forward-right fascia, with evidence of free flow of water.						
311-Movable Bearing	3 - Mod.	59	each	46	10	3	0
	CS2 - Surface rust has initiated on many rockers. A few steel pier cap, cross girder, rockers are slightly tipped. Bearing on P10 is missing one anchor bolt.						
	CS3 - Laminate rust to some abutment rockers. Pack rust forming between forward rockers 1-3. Forward rocker 3 is loose with some loss of bearing.						
313-Fixed Bearing	3 - Mod.	10	each	0	10	0	0
	Fixed at P2 & P5.						
	CS2 - Surface rust has initiated on bolsters.						
321-Reinforced Concrete Approach Slab	3 - Mod.	1967	sq. ft.	1902	65	0	0
	CS2 - Some cracks.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	2339	ft.	1799	400	80	60
	CS2 - Collision scrapes. Many vertical cracks, some leaching. Horizontal cracks, 3" below tops of parapets. Cracks to light pole bases. Some delamination.						
	CS3 - Large spalled areas with crumbling concrete, some with exposed rebar.						
	CS4 - Deep spalls to tops of parapets with 360° exposed rebar.						
521-Concrete Protective Coating		18710	sq. ft.	0	0	0	18710
	CS4 - PCS is ineffective.						
815-Drainage	3 - Mod.	2	each	0	2	0	0
	CS2 - Some sediment & debris along both parapets.						
820-Steel Seated-Hinge Assembly	3 - Mod.	10	each	0	9	1	0
	CS2 - Surface rust.						
	CS3 - Areas of rusted & rusting section loss. Possible crack in stiffener to seated hinge flange weld at beam 4 in span 4.						

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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.	84	ft.	57	27	0	0
CS2 - Vertical cracks, some leaching. Honeycombing.							
521-Concrete Protective Coating		504	sq. ft.	491	0	0	13

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ODOT District: District 12

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Routine Maint: 01 - State Highway Agency

Feature Inters: NSC RR & RTA91

Traffic Under: 2 - Railroad

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

.17 Mi. N. OF JCT. I-480

Inspector

Erkelenz,David

Inspection Date

08/23/2024

Reviewer

Seif,Youssef

Date Built: 07/01/1969

Rehab Date: 06/30/2000

Insp. 01 - State Highway Agency

Resp A:

Insp

Resp B:

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Some cracks to concrete slabs. A few patches to asphalt at forward relief joint.

Approach Embankment

Large area of erosion as deep as 64" beyond bridge at forward-right.

Inspector Comments - General Appraisal

Superstructure

Fatigue

Welded moment plates at some piers. Some areas of intersecting welds at steel pier caps.

Utilities

Rusting section loss to bridge lighting conduit. Under bridge lighting over railroad tracks is out & a few have fallen down.

Substructure

Wingwalls

Cracks. Diagonal leaching cracks in rear-right wingwall. Gap with exposed rebar at base of forward-right cheekwall.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

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Scour Critical