

Inspector: Erkelenz,David

Inspection Date: 04/18/2024

Structure Number: 1805177

Facility Carried: CR-10 (RIDGE ROAD)

Ohio Bridge Inspection Summary Report

CUY-00071-1559 (1805177)

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

5A: Inventory Route 1 14554

21: Major Maint A/B 01 - State Highway Agency /

7: Facility On CR-10 (RIDGE ROAD)

225 Routine Main A/B 04 - City or Municipal Highway /
Agency

6: Feature Ints IR-71& CSX

221 Inspection A/B 01 - State Highway Agency /

9: Location 1.9 MI. W. OF JCT USR 42

220: Inv. Location DISTRICT 12

Lat, Lon 41.447278 , -81.735317

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	6 - Satisfactory (1-10% 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	8 / 0
59.01 Paint & PCS	5 - Fair (10-15% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	8 - Very Good Condition	408: Composite Deck	Y - Composite Construction
61: Channel	7	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	6 - Satisfactory	414B: Joint Type 2	2 - Sliding Metal Plate Angle
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
			2- MicroSilica
67.01 GA	7	422: WS Date	01/01/1993

Appraisal		423: WS Thick (in)	1.0
Sufficiency Rating	70.8 SD/FO 2 - FO	482: Protective Coating	0 - Other Paint
36: Rail, Tr, Gd, Term Std	1 0 0 0	483: PCS Date	05/01/1994
72: Approach Alignment	8 - Equal to present desirable criteria	453: Bearing Type 1	2 - Rockers & Bolsters
113: Scour Critical	8 - Stable for scour conditions	455: Bearing Type 2	N - None
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations	528: Foundn: Abut Fwd	6 - Rock (including Spread Footing on Rock)
Geometric		533: Foundn: Abut Rear	1 - Steel H Piles (Other Size)
48: Max Span Length (ft)	116.0	536: Foundn: Pier 1	3 - Drilled Shafts
49: Structure Length (ft)	755.6	539: Foundn: Pier 2	N - None (Such as most Culverts)
52: Deck Width, Out-To-Out (ft)	66.0		
424: Deck Area (sf)	49869.6		
32: Appr Roadway Width (ft)	52.0		
51: Road Width, Curb-Curb (ft)	52.0		
50A: Curb/SW Width: Left (ft)	6		
50A: Curb/SW Width: Right (ft)	6		
34: Skew (deg)	99		
33: Bridge Median	0 - No median		
54B: Min Vert Underclearance (ft)	19.64		
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	1993 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	8 - Highway - waterway - railroad
28A: Lanes on	04
28B: Lanes Under	09
19: Bypass Length	4
29: ADT	16489
109: % Trucks (%)	7

Inspections	
	Months
90: Routine Insp.	24 04/18/2024
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
Inspector	Erkelenz,David
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	07/01/1994
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18

Inspector: Erkelenz,David
Inspection Date: 04/18/2024
loading.

Structure Number: 1805177
Facility Carried: CR-10 (RIDGE ROAD)

Inspection Date: 04/18/2024

Facility Carried: CR-10 (RIDGE ROAD)

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	49867	sq. ft.	48367	1500	0	0
	CS2 - A few leaching cracks, some wet. Lightly mottled areas at downspouts.						
805-Wearing Surface - Monolithic Concrete		39289	sq. ft.	37278	2000	0	11
	CS2 - Some transverse cracks. Small shallow spalls along joint armor at both ends. CS4 - Some concrete breakup around rough asphalt patches in northbound lanes 1 & 2, near rear.						
107-Steel Open Girder/Beam	3 - Mod.	5292	ft.	5087	200	5	0
	CS2 - Areas of surface rust, mostly to edges of lower flanges. CS3 - Some isolated section loss near forward.						
515-Steel Protective Coating		63504	sq. ft.	0	58449	4950	105
	CS2 - Surface dulling. CS3 - Cracked & peeling paint coats. Blistered paint with rust underneath. CS4 - Bare rusting steel, mostly to edges of lower flanges.						
205-Reinforced Concrete Column	3 - Mod.	28	each	21	5	2	0
	CS2 - P1C2 - Vertical cracks & small, shallow spalls. P1C3 - Horizontal & vertical cracks. P2C1 - 1 SF of delamination. P4C3 - Vertical crack to base. P4C4 - 1 SF of delamination to base. CS3 - P1C1 - Vertical crack & shallow spall with exposed rebar. P5C4 - Wide cracks with delamination & spalling to base.						
521-Concrete Protective Coating		8642	sq. ft.	8620	0	0	22
	CS4 - PCS is ineffective.						
215-Reinforced Concrete Abutment	3 - Mod.	133	ft.	102	27	4	0
	Sediment & debris from leaking joint above. CS2 - Mostly vertical cracks, some leaching. CS3 - A few sealed spalls below forward bearings 5 & 6.						
521-Concrete Protective Coating		333	sq. ft.	302	0	0	31
	CS4 - PCS is ineffective.						
234-Reinforced Concrete Pier Cap	3 - Mod.	452	ft.	447	5	0	0
	CS2 - A few cracks.						
521-Concrete Protective Coating		5690	sq. ft.	5685	0	0	5
	CS4 - PCS is ineffective.						

Structure Number: 1805177
Facility Carried: CR-10 (RIDGE ROAD)

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
300-Strip Seal Expansion Joint	3 - Mod.	129	ft.	0	87	4	38
	Sliding metal plate covers strip seal at sidewalks.						
	CS2 - Some sediment in joints. Mostly longitudinal cracks to headers. Small, shallow spalls to headers, along joint armor.						
	CS3 - A few minor gouges to armor.						
	CS4 - Torn seal with free flow of water & sediment onto abutment seats, in forward bays 1-3, 5 & 6 and rear bays 2 & 6.						
311-Movable Bearing	3 - Mod.	56	each	30	18	7	1
	CS2 - Surface rust to some rockers, mostly at abutments. Forward rockers 4 & 5, rear rocker 4 and P7 rockers 5 & 7 are tipped in. P7 rockers 1-4 are tipped out.						
	CS3 - Forward rocker 6 has some pack rust forming. At 39° F, forward rockers 1-3 are tipped out with keeper pins exposed. Rear rocker 1 is tipped in and rear rockers 3 & 6 are tipped out, all with keeper pins exposed.						
	CS4 - Rear rocker 2 is disengaged from keeper pins & halfway off masonry plate.						
313-Fixed Bearing	3 - Mod.	7	each	7	0	0	0
	Fixed at P4.						
321-Reinforced Concrete Approach Slab	3 - Mod.	1560	sq. ft.	1227	325	2	6
	CS2 - A few full-length, longitudinal cracks to both.						
	CS3 - A couple small, spalls to rear slab, at joint header & northbound in lane 2.						
	CS4 - Rough asphalt patches to forward, along joint header.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	1511	ft.	1086	275	150	0
	CS2 - Cracks. Some areas of heavy scaling to inside of railings & popouts, mostly around light poles. A few delams to outside of left railing.						
	CS3 - Rust-stained cracks to outside of railing. Wide cracks with delamination & spalls, some with exposed rebar, mostly at light poles.						
521-Concrete Protective Coating		8319	sq. ft.	7894	0	0	425
	CS4 - PCS is ineffective.						
815-Drainage	3 - Mod.	21	each	15	0	0	6
	CS4 - All P2 scuppers are plugged, most all the way through. Some sediment & debris along curbs at plugged scuppers.						
830-Abutment Backwall	3 - Mod.	133	ft.	103	30	0	0
	CS2 - Some vertical cracks.						
521-Concrete Protective Coating		565	sq. ft.	535	0	0	30
	CS4 - PCS is ineffective.						

Inspector: Erkelenz,David

Structure Number: 1805177

Inspection Date: 04/18/2024

Facility Carried: CR-10 (RIDGE ROAD)

ODOT District: District 12

CUY-00071-1559 _(1805177)

Date Built: 07/01/1993

Major Maint: 01 - State Highway Agency

Facility Carried: CR-10 (RIDGE ROAD)

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway
Agency

Feature Inters: IR-71& CSX

Traffic Under: 8 - Highway - waterway - railroad

Insp. 01 - State Highway Agency
Resp A:

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

1.9 MI. W. OF JCT USR 42

Insp
Resp B:

Inspector

Erkelenz,David

Inspection Date 04/18/2024

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Inspection

North abutment is rear.

Curbs/Sidewalk

Dirt & debris along railing. Scaling. Cracks & delams. Some shallow spalls, mostly to left sidewalk.

Bridge Railing

Collision damage to right fence over rear slope and over northbound I-71. Collision damage to left fence at span 3. Spalls forming on left railing, to base of 4th light pole, over W 65th off ramp, lowspeed berm & I-71 southbound lanes 2 & 3.

Deck Drainage

Downspout at P2C1 is plugged. Erosion around plugged catch basin of P3C4. Bottom 4' of downspouts at P4C4 & P5C4 are missing.

Approach

Approach Wearing Surface

Cracks to asphalt. Shallow potholes & asphalt patches in center lanes.

Approach Railing

Areas of cracks, scaling and small spalls.

Inspector Comments - General Appraisal

Superstructure

Utilities

Disconnected conduit in bay 2 at both abutments & in span 5. Water leaking from conduit in bay 3 over forward slope. Conduits attached to P3C1 & C4 are both bent.

Substructure

Culvert

Inspector: Erkelenz,David
Inspection Date: 04/18/2024

Structure Number: 1805177
Facility Carried: CR-10 (RIDGE ROAD)

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection

Dump rock is undermined at the bases of P6 C1 & C2. Channel protection slabs are sliding into the creek.

Scour Critical