# **Ohio Bridge Inspection Summary Report**

# LAK-00002-1805L (4301897)

2: DistrictDistr 59430 - PAI ict 12	NESVILLE TWP (LAK county)	5A: Inventory Route 1	00002		
21: Major Maint A/B 01	I - State Highway Agency /	7: Facility On SR 2			
225 Routine Main A/B 01	I - State Highway Agency /	6: Feature Ints CR-305 (B	SACON RD)		
221 Inspection A/B 01 - State Highway Agency /		9: Location 1.5 E GRA	AND RIVER		
220: Inv. Location DISTR	RICT 12	Lat, Lon 41.752331	,-81.207989		
	Condition	Sti	ructure Type		
58: Deck	6 - Satisfactory Condition	43: Bridge Type 4 - St	eel continuous		
58.01 Wearing Surface	6 - Satisfactory (1-10% distress)	02 - Stringer/Multi-beam or Girder			
58.02 Joint	6- Satisfactory (isolated leaking)	N- Not Applicable			
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach 3 / 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	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	3 - Latex Concrete or similar		
67.01 GA	6	J	additive N- Not Applicable		
07.01 GA		422: WS Date	10/21/1991		
	Appraisal	423: WS Thick (in)	1.25		
Sufficiency Rating	79.9 SD/FO 2 - FO	482: Protective Coating	0 - Other Paint		
36: Rail, Tr, Gd, Term Std	1 1 1 1	483: PCS Date	01/01/1992		
72: Approach Alignment	8 - Equal to present desirable criteria	453: Bearing Type 1	3 - Sliding (Bronze)		
113: Scour Critical	N - Not over waterway	455: Bearing Type 2	N - None		
71: Waterway Adequacy	N - Not Applicable	528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)		
Geometric			1 - Steel H Piles (Other Size)		
48: Max Span Length (ft)	61.0	536: Foundn: Pier 1	1 - Steel H Piles (Other size)		
49: Structure Length (ft)	161.0	539: Foundn: Pier 2	0 - Other		
52: Deck Width, Out-To-Ou					
424: Deck Area (sf)	7132.3	Age	e and Service		
32: Appr Roadway Width (f	t) 42.0	27: Year Built/ 106 Reha	ab 1964 / 1989		
51: Road Width, Curb-Curb	•	42A: Service On	1 - Highway		
50A: Curb/SW Width: Left (		42B: Service Under	1 - Highway, with or w/out		
50A: Curb/SW Width: Right		28A: Lanes on	pedestrian 03		
34: Skew (deg)	42	28B: Lanes Under	02		
33: Bridge Median	0 - No median	19: Bypass Length	1		
54B: Min Vert Undercleara		29: ADT	9459		
336A: Min Vert Clrnce IR C	• •	109: % Trucks (%)	10		
336B: Min V Clr IR Non-Ca	( )				
578: Culvert Length (ft)	0	Ins	pections		
570. Oulvert Length (it)	Load Posting	90: Routine Insp.	Months 12 02/27/2022		
	•	92A: FCM Insp. N	0		
41: Op/Post/Closed A - Open		92B: Dive Insp. N	0		
70: Posting 5 - Equal to or above legal loads		92C: Special Insp. N	0		
70.01: Date		92D: UBIT Insp. N	0		
70.02: Sign Type		92E: Drone Insp. N	0		
734: Percent Legal (%)	150	•	-		
704: Analysis Date	07/01/2013	Inspector Banaszak,k	(en		
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS1 loading.				

**Inspector:** Ken Banaszak **Structure Number:** 4301897

Inspection Date: 02/27/2022 Facility Carried: SR 2

## **Bridge Inspection Report**

## **Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12 - Reinforced Concrete Deck	3 - Mod.	7126	sq. ft.	5281	1800	45	0	
	CS2 - Transverse cracks, some leaching. Rust stains from shallow cover rebar. Lightly mottled areas. Full depth repair in bay 1 over forward slope.							
	CS3 - Minor spalls to right edge of floor. Some shallow spalls, few with exposed rebar. Minor delams. Minor heavier mottled areas.							
510 - Wearing Surfaces		6762	sq. ft.	4686	2000	75	1	
	CS2 - Transverse and longitudinal cracks throughout, some sealed. Some scaling.  CS3 - A few cracks as wide as 1/32". Minor delams.							
	CS4 - 1 sf asphalt patch at forward ExJt in #2.							
107 - Steel Open Girder/Beam		966	ft.	942	20	4	0	
	CS2 - Some light rusting section loss. Scrapes to lower flanges of all beams over SB lane with small gouge in right fascia.							
	CS3 - Heavy rusting section loss near beam ends.							
515 - Steel Protective Coating		8520	sq. ft.	0	7268	852	400	
	<ul><li>CS2 - Chalking/ Faded. Initiated surface rust throughout. Peeling top coat.</li><li>CS3 - Peeling paint coats. Blistering paint with rust underneath.</li><li>CS4 - Paint failing at beams ends &amp; along lower flanges of fascias.</li></ul>							
205 - Reinforced Concrete Column	3 - Mod.	8	each	8	0	0	0	
	Concrete patches to P2C4.							
215 - Reinforced Concrete Abutment	3 - Mod.	120	ft.	109	11	0	0	
	CS2 - Minor cracks. Rust stains & scaling.							
234 - Reinforced Concrete Pier Cap	3 - Mod.	120	ft.	120	0	0	0	
305 - Assembly Joint without Seal		119	ft.	30	78	6	5	
	CS2 - Minor scrapes & gouges to forward armor. Areas of minor rusting section loss. Dirt and debris in gap.  CS3 - Spalls to headers with asphalt patches. Few heavy gouges to forward ExJt.							
	CS4 - Evidence of leakage down backwalls.							

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## **Element Inspection**

311 - Movable Bearing	3 - Mod.	18	each	0	6	12	0	
	Surface rust throughout.							
	CS3 - Rusting section loss to abutment bearings. Most abutment bearings are past the designed travel limits. Pack rust forming to abutment bearings between sole and masonry plates.							
313 - Fixed Bearing		6	each	0	6	0	0	
	CS2 - Surface rust.							
321 - Reinforced Concrete Approach Slab	3 - Mod.	2100	sq. ft.	1582	500	18	0	
	Paved over with asphalt.							
	CS2 - Cracks, some sealed.							
	CS3 - Asphalt patches. Potholes and areas of broken up asphalt along ExJts.							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	322	ft.	312	10	0	0	
	Collision scrapes.							
	CS2 - A few vertical cracks.							
815 - Drainage	3 - Mod.	16	each	7	9	0	0	
	CS2 - Rusting section loss & thru holes to some downspouts. Note: drainage spraying onto some beams.							
830 - Abutment Backwall	3 - Mod.	120	ft.	100	10	10	0	
	Rust stained.							
	CS2 - Cracks, some leaching.							
	CS3 - Spalls and delams to both.							

## LAK-00002-1805L\_(4301897)

ODOT District: District 12 Major Maint: 01 - State Highway Agency

Facility Carried: SR 2

Traffic On: 1 - Highway

07/01/1964 Date Built: Rehab Date:

01/01/1989

Routine Maint: 01 - State Highway Agency FIPS Code: 59430 - PAINESVILLE TWP (LAK county)

Feature Inters: CR-305 (BACON RD) Location: DISTRICT 12

Traffic Under: 1 - Highway, with or w/out pedestrian 1.5 E GRAND RIVER

01 - State Highway Agency Resp A: Insp Resp B:

Inspector Banaszak,Ken Inspection Date 02/27/2022

Reviewer Seif, Youssef

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

#### Deck

### **Approach**

#### **Approach Wearing Surface**

Sealed cracks. Small asphalt patches, and slight breaking up where asphalt meets exit headers at forward.

#### Approach Guardrail

Thru crack to rear-left & forward-left concrete approach rails. Rear-left concrete approach rail has shifted approx 3" left.

#### **Signs**

Damage to forward-left bridge end marker.

## **Inspector Comments - General Appraisal**

#### <u>Superstructure</u>

#### Diaphragm/X-Frames

Surface rust throughout. Endframe rusting section loss. Rusting thru holes in bay 1 angle near rear abutment.

#### **Fatigue**

Welded moment plates at piers.

#### Substructure

#### Culvert

## **Inspector Comments - Waterway**

**Waterway Adequacy** 

#### **Channel**

## **Scour Critical**