

# Ohio Bridge Inspection Summary Report

**LAK-00002-1805R (4301927)**

2: District 59430 - PAINESVILLE TWP (LAK county)  
 ict  
 12

5A: Inventory Route 1 00002

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 12

7: Facility On SR 2  
 6: Feature Ints CR-305 (BACON RD)  
 9: Location 1.5 MI E GRAND RIVER  
 Lat, Lon 41.752044 , -81.207972

Condition	Structure Type
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**58: Deck** **6 - Satisfactory Condition**  
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)  
 58.02 Joint 6- Satisfactory (isolated leaking)  
**59: Superstructure** **6 - Satisfactory Condition**  
 59.01 Paint & PCS 4 - Poor PCS (15-20% corr.)  
**60: Substructure** **7 - Good Condition**  
**61: Channel** **N**  
**61.01 Scour** **N - Not Applicable**  
**62: Culverts** **N - Not Applicable**  
**67.01 GA** **6**

43: Bridge Type 4 - Steel continuous  
 02 - Stringer/Multi-beam or Girder  
 N- Not Applicable  
 45: Spans Main / Approach 3 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck N - Non-composite Construction  
 414A Joint Type 1 2 - Sliding Metal Plate Angle  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 3 - Latex Concrete or similar additive  
 N- Not Applicable

Appraisal	Inspection
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Sufficiency Rating 79.9 SD/FO 2 - FO  
 36: Rail, Tr, Gd, Term Std 1 1 1 1  
 72: Approach Alignment 8 - Equal to present desirable criteria  
 113: Scour Critical N - Not over waterway  
 71: Waterway Adequacy N - Not Applicable

422: WS Date 10/21/1991  
 423: WS Thick (in) 1.25  
 482: Protective Coating 0 - Other Paint  
 483: PCS Date 01/01/1992  
 453: Bearing Type 1 3 - Sliding (Bronze)  
 455: Bearing Type 2 N - None  
 528: Foundn: Abut Fwd 1 - Steel H Piles (Other size)  
 533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)  
 536: Foundn: Pier 1 1 - Steel H Piles (Other size)  
 539: Foundn: Pier 2 0 - Other

Geometric	Age and Service
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48: Max Span Length (ft) 61.0  
 49: Structure Length (ft) 161.0  
 52: Deck Width, Out-To-Out (ft) 44.3  
 424: Deck Area (sf) 7132.3  
 32: Appr Roadway Width (ft) 42.0  
 51: Road Width, Curb-Curb (ft) 42.0  
 50A: Curb/SW Width: Left (ft) 0  
 50A: Curb/SW Width: Right (ft) 0  
 34: Skew (deg) 42  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 14.58  
 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	Inspections
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27: Year Built/ 106 Rehab 1964 / 1989  
 42A: Service On 1 - Highway  
 42B: Service Under 1 - Highway, with or w/out pedestrian  
 28A: Lanes on 03  
 28B: Lanes Under 02  
 19: Bypass Length 1  
 29: ADT 9459  
 109: % Trucks (%) 10

Load Posting	Inspections
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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 07/01/2013  
 63: Analysis Method 7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

	Months	
90: Routine Insp.	12	02/27/2022
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	Banaszak, Ken	

Inspector: Ken Banaszak  
 Inspection Date: 02/27/2022

Structure Number: 4301927  
 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
<b>12 - Reinforced Concrete Deck</b>	3 - Mod.	7126	sq. ft.	4541	2500	85	0
	CS2 - Transverse cracks, some leaching. Lightly mottled areas. CS3 - Areas of spalls and delams. Some areas of heavier mottling at deck ends.						
510 - Wearing Surfaces		6762	sq. ft.	5377	1300	85	0
	CS2 - Transverse cracks, some sealed. Areas of faint map cracking throughout. Some scaling. CS3 - A few cracks as wide as 1/32". Minor delams.						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	966	ft.	930	30	6	0
	CS2 - Surface rust throughout. Bolted splice repair on lower flange of beam 2 in span 2. Scrapes to lower flanges of beams 1-3, 5 & 6 over SB lane. Ground out gouges to right fascia over NB lane. CS3 - Heavier rusting section loss near most beam ends.						
515 - Steel Protective Coating		8520	sq. ft.	0	7218	852	450
	CS2 - Initiated surface rust throughout. Chalking/ Fading. Peeling top coat. CS3 - Peeling paint coats. Blistering paint with rust underneath. CS4 - Paint failing at beam ends & along lower flanges of fascias. Unprotected steel.						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	8	each	8	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	120	ft.	105	15	0	0
	CS2 - Some cracks.						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	120	ft.	120	0	0	0
<b>305 - Assembly Joint without Seal</b>	3 - Mod.	119	ft.	29	80	10	0
	CS2 - Some light scrapes/gouges to armor. Areas of minor rusting section loss. Dirt and debris in gap. CS3 - Areas of headers have been patched with asphalt. Heavy rusting section loss, mainly in #2 lane at the forward.						
<b>311 - Movable Bearing</b>	3 - Mod.	18	each	0	6	12	0
	CS2 - Surface rust throughout. CS3 - Rusting section loss to abutment bearings. Abutment bearings are past the designed travel limits. Pack rust formed between masonry and sole plates of abutment bearings.						
<b>313 - Fixed Bearing</b>	3 - Mod.	06	each	0	6	0	0
	CS2 - Surface rust.						

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**Element Inspection**

<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	2100	sq. ft.	1760	275	65	0
	Paved over with asphalt. CS2 - Cracks, some sealed. CS3 - Asphalt patches. Broken up asphalt at both ends. Small potholes at rear.						
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	322	ft.	307	10	5	0
	CS2 - A few vertical cracks. CS3 - Small spall in base of right rail near rear scuppers.						
<b>815 - Drainage</b>	3 - Mod.	16	each	3	13	0	0
	CS2 - Rusting section loss & thru holes to some downspouts. Note: drainage spraying onto some beams.						
<b>830 - Abutment Backwall</b>	3 - Mod.	120	ft.	104	8	8	0
	CS2 - Cracks. CS3 - Some spalls and delams to both.						

ODOT District: District 12

## LAK-00002-1805R\_(4301927)

Date Built: 07/01/1964

Major Maint: 01 - State Highway Agency

Facility Carried: SR 2

Traffic On: 1 - Highway

Rehab Date: 01/01/1989

Routine Maint: 01 - State Highway Agency

Feature Inters: CR-305 (BACON RD)

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. 01 - State Highway Agency

FIPS Code: 59430 - PAINESVILLE TWP (LAK county)

Location: DISTRICT 12

1.5 MI E GRAND RIVER

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date 02/27/2022

Reviewer Seif, Youssef

### Inspector Comments - Deck and Approach

#### Deck

#### Approach

##### **Approach Wearing Surface**

Cracks, most sealed. Rough asphalt patches along exjt headers. Minor potholes along rear ExJt.

##### **Approach Guardrail**

Rear-left concrete approach rail has shifted left due to impact. Forward-right concrete approach rail is thru cracked & shifted to the right. Rear right & rear left guardrails have accident damage.

##### **Signs**

Damage to rear-right bridge end marker. Both bridge markers faded and no longer reflective.

### Inspector Comments - General Appraisal

#### Superstructure

##### **Diaphragm/X-Frames**

Surface rust throughout. Endframe rusting section loss.

##### **Fatigue**

Welded moment plates at piers.

#### Substructure

##### **Embankment**

Minor erosion rut from scuppers to forward right embankment.

#### Culvert

### Inspector Comments - Waterway

#### Waterway Adequacy

Channel

Scour Critical