

Inspector: Ropelewski,Robert

Inspection Date: 07/26/2023

Structure Number: 1808168

Facility Carried: LAKESIDE AVE (CR-7)

### Ohio Bridge Inspection Summary Report

**CUY-00090-1803 (1808168)**

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

5A: Inventory Route 1 00706

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

7: Facility On LAKESIDE AVE (CR-7)

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

6: Feature Ints IR-90 (LAKESIDE)

221 Inspection A/B 01 - State Highway Agency /

9: Location .35 MI. E. OF JCT. US-6

220: Inv. Location DISTRICT 12

Lat, Lon 41.514457 ,-81.674186

#### Condition

**58: Deck** **6 - Satisfactory Condition**  
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)  
 58.02 Joint 4- Poor (heavy leaking, offset)

**59: Superstructure** **7 - Good Condition**  
 59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)

**60: Substructure** **7 - Good Condition**

**61: Channel** **N**  
**61.01 Scour** **N - Not Applicable**

**62: Culverts** **N - Not Applicable**

#### Structure Type

43: Bridge Type 4 - Steel continuous  
 02 - Stringer/Multi-beam or Girder  
 N- Not Applicable

45: Spans Main / Approach 4 / 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 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)  
 2- MicroSilica

67.01 GA 7

#### Appraisal

Sufficiency Rating 95.5 SD/FO 2 - FO

36: Rail, Tr, Gd, Term Std 1 N N N

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 07/01/1993

423: WS Thick (in) 2.0

482: Protective Coating 0 - Other Paint

483: PCS Date 01/01/1987

453: Bearing Type 1 2 - Rockers & Bolsters

455: Bearing Type 2 N - None

528: Foundn: Abut Fwd 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)

533: Foundn: Abut Rear 2 - Cast-in-Place reinforced Concrete Piles (Other diameter)

536: Foundn: Pier 1 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)

539: Foundn: Pier 2 0 - Other

#### Geometric

48: Max Span Length (ft) 70.0

49: Structure Length (ft) 237.0

52: Deck Width, Out-To-Out (ft) 55.1

424: Deck Area (sf) 13058.7

32: Appr Roadway Width (ft) 40.0

51: Road Width, Curb-Curb (ft) 40.0

50A: Curb/SW Width: Left (ft) 6

50A: Curb/SW Width: Right (ft) 6

34: Skew (deg) 14

33: Bridge Median 0 - No median

54B: Min Vert Underclearance (ft) 15.19

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 1959 / 0000

42A: Service On 1 - Highway

42B: Service Under 1 - Highway, with or w/out pedestrian

28A: Lanes on 02

28B: Lanes Under 08

19: Bypass Length 2

29: ADT 3674

109: % Trucks (%) 5

#### 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 07/01/1973

7 - Allowable Stress (AS) rating reported

#### Inspections

	Months	
90: Routine Insp.	12	07/26/2023
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 Ropelewski,Robert

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63: Analysis Method	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
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	12192	sq. ft.	9707	2400	85	0
Note: Timber sub-decking over traffic. CS2 - Transverse leaching cracks, map cracks, many epoxy smeared areas. Delams. CS3 - Some spalls.							
805-Wearing Surface - Monolithic Concrete		8840	sq. ft.	5915	2750	175	0
CS2 - Map cracks. Transverse and other cracks. Few delaminated areas. CS3 - Some cracks as wide as 1/16".							
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	1768	ft.	1718	50	0	0
CS2 - Scrapes to lower flange of beams 2 & 4 over EB lane #3. Areas of surface rust throughout.							
515-Steel Protective Coating		17738	sq. ft.	0	16878	800	60
CS2 - Chalking/ dulling throughout. CS3 - Peeling coats. Blistered paint with rust underneath. CS4 - Unprotected steel.							
<b>205-Reinforced Concrete Column</b>	3 - Mod.	12	each	12	0	0	0
Minor cracks to some columns.							
521-Concrete Protective Coating		1344	sq. ft.	1344	0	0	0
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	113	ft.	98	15	0	0
CS2 - A few cracks, shallow spalls in abutment seats.							
521-Concrete Protective Coating		113	sq. ft.	108	0	0	5
CS4- Not effective							
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	173	ft.	36	137	0	0
CS2- Caps are fiber wrapped between columns. Some cracks. Few minor delams.							
521-Concrete Protective Coating		1212	sq. ft.	1212	0	0	0
<b>305-Assembly Joint without Seal</b>	3 - Mod.	110	ft.	0	0	0	110
CS4 - Cracks to ExJt header. Gouges to armor. Spalls & asphalt patches to exjt headers. Both joints closed at 80 degrees. Many rusting thru holes to curb & sidewalk plates at all corners except rear-left.							
<b>311-Movable Bearing</b>	3 - Mod.	32	each	16	0	16	0
CS3 - Debris around abutment rockers. Heavy pack rust forming between rocker and masonry plate to abutment bearings.							
<b>313-Fixed Bearing</b>	3 - Mod.	8	each	6	2	0	0
P2 bolsters are not centered under beams (most are slightly north) CS2 - Surface rust to facia bearings.							

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<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	1200	sq. ft.	1200	0	0	0
	Paved over. CS2- Cracks and patches.						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	442	ft.	167	275	0	0
	CS2 - Vertical & horizontal leached cracks.						
521-Concrete Protective Coating		1547	sq. ft.	1547	0	0	0
<b>815-Drainage</b>	3 - Mod.	4	each	3	0	0	1
	CS4- Plugged hopper (below floor) in bay 1 at rear abutment. Thru holes in bulb angle at rear. Dirt & debris in bulb angles (scuppers are open).						
<b>830-Abutment Backwall</b>	3 - Mod.	113	ft.	76	22	15	0
	CS2 - Cracks. Delams CS3 - Some spalls, mainly in utility bays.						
521-Concrete Protective Coating		283	sq. ft.	268	0	0	15
	CS4- Not effective						

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ODOT District: District 12

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Date Built: 07/01/1959

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Traffic On: 1 - Highway

Rehab Date:

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Insp. Resp A: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

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Insp Resp B:

Inspector

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Reviewer Seif,Youssef

## **Inspector Comments - Deck and Approach**

### **Deck**

#### **Inspection Notes**

East abutment is rear.

#### **Edge of Floor/Slab**

Spalls forming over traffic on south edge over EB lanes #2 & #3.

#### **Curbs/Sidewalk**

Cracks, concrete patches.

#### **Railing**

Heavy rusting section loss at some fence post connections and hardware. Vegetation overgrowing fence at all corners except rear-right.

### **Approach**

#### **Approach Wearing Surface**

Asphalt patches.

#### **Signs**

No bridge end markers.

## **Inspector Comments - General Appraisal**

### **Superstructure**

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

Endframe rusting section loss with thru holes in rear endframe #7 & forward endframe #6.

#### **Fatigue**

Welded moment plates at piers.

#### **Utilities**

Utility ducts are broken in rear bay 1 & disconnected in forward bay 1. Conduits in bay 1 are held to supports with wire.

### **Substructure**

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**Slope Protection**

Cracks. Voids in dirt slope between forward & rear abutments and concrete slope protection with slight undermining of slope protection.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**

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**Pictures**