

Inspector: Gerstenslager,Michael

Inspection Date: 11/27/2024

Structure Number: 1804472

Facility Carried: RAMP ES TO I-71

**Ohio Bridge Inspection Summary Report****CUY-00480-0856ES (1804472)**2: District 16000 - CLEVELAND (CUY county)  
ict  
12

5A: Inventory Route 1 00480

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 RAMP ES TO I-71  
6: Feature Ints IR 71 MAINLINE  
9: Location OVER IR 71 AND OVER SR 17  
Lat, Lon 41.418664 , -81.817906

Condition		Structure Type	
<b>58: Deck</b>	<b>6 - Satisfactory Condition</b>	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
<b>59: Superstructure</b>	<b>7 - Good Condition</b>	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	9 - Excellent	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>5 - Fair Condition</b>	408: Composite Deck	N - Non-composite Construction
<b>61: Channel</b>	<b>N</b>	414A Joint Type 1	2 - Sliding Metal Plate Angle
61.01 Scour	<b>N - Not Applicable</b>	414B: Joint Type 2	N - None
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface	3 - Latex Concrete or similar additive
			N- Not Applicable
<b>67.01 GA</b>	<b>5</b>		

Appraisal			
Sufficiency Rating	79.3	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	1	1 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	10/31/2004
423: WS Thick (in)	1.2
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	01/01/1989
453: Bearing Type 1	2 - Rockers & Bolsters
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	
48: Max Span Length (ft)	99.0
49: Structure Length (ft)	342.0
52: Deck Width, Out-To-Out (ft)	36.0
424: Deck Area (sf)	12312
32: Appr Roadway Width (ft)	27.0
51: Road Width, Curb-Curb (ft)	30.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	53
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	16.54
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	1966 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	04
19: Bypass Length	0
29: ADT	1000
109: % Trucks (%)	

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
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	11/27/2024
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

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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.	12312	sq. ft.	1812	10500	0	0
	CS2- Cracks, A few leaching. Some areas of map cracks. Some mottled areas. Minor shallow honeycombed areas.						
510-Wearing Surfaces		10260	sq. ft.	7515	2600	125	20
	CS2- Map cracks. Some transverse and longitudinal cracks. Some good concrete patches. Delaminated areas around spalls.						
	CS3- A few shallow spalls in lane 2. Several wide cracks.						
	CS 4 - 20 sf of asphalt patches in lane 2 over span 2.						
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	1710	ft.	1659	5	45	1
	CS2- A few bent stiffeners.						
	CS3- Heavy section loss to some beam ends and areas of fascia's between stiffeners.						
	CS 4- Small rusted through holes to the first and fifth stiffeners from forward on left fascia.						
515-Steel Protective Coating		21632	sq. ft.	21632	0	0	0
<b>205-Reinforced Concrete Column</b>	3 - Mod.	11	each	6	3	2	0
	CS2- P1C3- 4 SF delam P1C4- 4 SF delam P3C4- 2 SF delam, 2 SF spall CS3- P1C1- 15 SF delam, 3 SF spall P1C2- 10 SF delam, 1 SF spall						
521-Concrete Protective Coating		3678	sq. ft.	2478	0	0	1200
	CS 4- Areas of ineffective sealer.						
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	120	ft.	94	20	6	0
	CS2- Cracks, Some rust stains. Minor spalls and delams.						
	CS3- Spall with exposed rebar to rear right.						
521-Concrete Protective Coating		1125	sq. ft.	0	0	0	1125
	CS 4- Sealer ineffective.						
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	180	ft.	80	40	60	0
	CS2- Cracks, many leaching, some with rust stains.						
	CS3- Spalls with exposed rebar, mainly to P2 on West face.						
521-Concrete Protective Coating		4146	sq. ft.	3596	0	0	550
	CS 4- Areas of ineffective sealer. P2 cap is worst due to spalling.						

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>305-Assembly Joint without Seal</b>	3 - Mod.	72	ft.	3	29	40	0
	<p>Safety curbs have open joints.</p> <p>CS2- Debris in both joints. Cracks to header. Minor gouges to armor.</p> <p>CS3- 20' of forward riser bar is cut out. Asphalt patches to rear header. 3' broken up concrete patch to forward left header. Spalled area to header at rear-right in berm. Some rust section loss to armor in berms.</p>						
<b>311-Movable Bearing</b>	3 - Mod.	15	each	10	0	5	0
	CS3- Section loss to some abutment bearings.						
<b>313-Fixed Bearing</b>	3 - Mod.	10	each	10	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	1350	sq. ft.	1163	135	52	0
	<p>CS2- Some minor cracks, a few shallow spalls. Delaminated area at rear. Sound concrete patch in forward-right berm.</p> <p>CS3- A few wide cracks. Broken up concrete patches. 20 SF of rough asphalt patches to rear slab.</p>						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	684	ft.	269	275	140	0
	<p>CS2- Many cracks. Heavy scaling. Delams.</p> <p>CS3- Spalls with exposed rebar. Wide cracks. Areas of crumbling concrete.</p>						
<b>521-Concrete Protective Coating</b>		3423	sq. ft.	0	0	0	3423
	CS 4- Sealer not effective.						
<b>815-Drainage</b>	3 - Mod.	9	each	4	5	0	0
	CS2- Partially plugged scuppers.						
<b>830-Abutment Backwall</b>	3 - Mod.	120	ft.	67	15	32	6
	<p>CS2- Cracks, some leaching. Some minor delams.</p> <p>CS3- Areas of large spalls with rebar exposed to both.</p> <p>CS4- Large spalls thru to surface with some 360° rebar exposure, cheese plate &amp; exit armor exposure at rear &amp; forward behind both fascias.</p>						
<b>521-Concrete Protective Coating</b>		720	sq. ft.	0	0	0	720
	CWS 4- Sealer ineffective.						

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ODOT District: District 12

**CUY-00480-0856ES\_(1804472)**

Date Built: 07/01/1966

Major Maint: 01 - State Highway Agency

Facility Carried: RAMP ES TO I-71

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR 71 MAINLINE

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

OVER IR 71 AND OVER SR 17

Insp  
Resp B:

Inspector

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Reviewer Seif,Youssef

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

### **Deck**

Rear abutment is south abutment.

### **Floor/Slab**

SOT- (Spalls Over Traffic) Spall forming to bottom face of P2 over Brookpark Rd EB lanes.

### **Curbs/Sidewalk**

Delams. 150+ LF of left curb is spalled with exposed rebar. Concrete deterioration, cracks & spalls with exposed rebar to all 4 approach curbs.

### **Metal Railing**

Rust to bolts and nuts at most tubular rail anchor posts. Minor collision scrapes. 3' bent tube to left rail.

### **Approach**

### **Approach Relief Joint**

Cracks, rough asphalt patches to forward lane #1 (forward lane #2 is asphalt patched). Some asphalt breaking up. A few shallow potholes.

### **Approach Guardrail**

Forward-right transition wall has full length cracks & many spalls with exposed rebar. Spall to forward left. Collision damage to forward right and left steel rails.

### **Signs**

Forward right bridge marker missing.

## **Inspector Comments - General Appraisal**

### **Superstructure**

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

Surface rust. Some rusting section loss to endframes. Horizontal angle of first xframe from forward abutment in bay 2 is bent 2" out of place. Paint runs.

### **Substructure**

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**Wingwalls**

Spall with exposed rebar to forward-right.

**Slope Protection**

5' deep erosion rut at rear abutment.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**

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### Bridge Inspection Report

### Pictures