

Inspector: Gerstenslager,Michael

Inspection Date: 11/13/2024

Structure Number: 1814257

Facility Carried: RAMP SW FROM I-71

Ohio Bridge Inspection Summary Report

CUY-00071-1007SW (1814257)

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

5A: Inventory Route 1 00071

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 RAMP SW FROM I-71
6: Feature Ints IR 480 MAINLINE
9: Location .19 MI. E. OF JCT. I-71
Lat, Lon 41.420472 , -81.815456

Condition		Structure Type	
58: Deck	4 - Poor Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	4 - Poor (advanced)		02 - Stringer/Multi-beam or Girder
58.02 Joint	4 - Poor (heavy leaking, offset)		N - Not Applicable
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	3 - Serious PCS (20-30% 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	1 - Monolithic Concrete (concurrently placed with structural deck)

67.01 GA 6

Appraisal	
Sufficiency Rating	85.3 SD/FO 1 - SD
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

Geometric	
48: Max Span Length (ft)	100.0
49: Structure Length (ft)	326.0
52: Deck Width, Out-To-Out (ft)	30.3
424: Deck Area (sf)	9877.8
32: Appr Roadway Width (ft)	22.0
51: Road Width, Curb-Curb (ft)	26.5
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	48
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	16.96
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

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	07/01/1900
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

422: WS Date	07/01/1980
423: WS Thick (in)	1.2
482: Protective Coating	7 - Metalized (Alum/Zinc)
483: PCS Date	07/01/1980
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
536: Foundn: Pier 1	4 - Spread Footing (on soil)
539: Foundn: Pier 2	0 - Other

Age and Service	
27: Year Built/ 106 Rehab	1980 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	01
28B: Lanes Under	06
19: Bypass Length	1
29: ADT	77220
109: % Trucks (%)	4

Inspections	
	Months
90: Routine Insp.	12 11/13/2024
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 Gerstenslager,Michael

Structure Number: 1814257

Facility Carried: RAMP SW FROM I-71

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	9892	sq. ft.	4782	4530	415	165
	CS2 - Transverse leaching cracks in bays & to deck edges. Delams. CS3 - Areas of mottling & efflorescent buildup, some with stalactites. Spalls with exposed rebar. CS4 - Spalls with 4+ exposed rebar with section loss over traffic.						
805-Wearing Surface - Monolithic Concrete		8639	sq. ft.	7449	1025	45	120
	CS2 - Some cracks. CS3 - A few wide, transverse cracks. Shallow spalls. CS4 - Concrete breakup & rough asphalt patches spread throughout. Deep spall with exposed rebar near mid-span.						
107-Steel Open Girder/Beam	3 - Mod.	1304	ft.	760	200	344	0
	CS2 - Surface rust. Fretting at tops of some web stiffeners. CS3 - Pack rust with sheeting & section loss to beam ends, lower flanges & bottoms of webs.						
515-Steel Protective Coating		17452	sq. ft.	6	10166	1800	5480
	CS2 - Surface dulling throughout. CS3 - Cracking & peeling of paint coats. CS4 - Areas of bare rusting steel, mostly to lower flanges, bottoms of webs & web stiffeners.						
205-Reinforced Concrete Column	3 - Mod.	12	each	0	12	0	0
	Fiber wrapped, many with air voids. CS2 - Rust-stains from rebar.						
521-Concrete Protective Coating		1776	sq. ft.	1776	0	0	0
	Fiber wrapped.						
215-Reinforced Concrete Abutment	3 - Mod.	91	ft.	64	16	11	0
	CS2 - Some leaching cracks. A few delaminations. CS3 - A few wide, rust-stained cracks. Spalls with exposed rebar. Large spall to rear-right corner.						
521-Concrete Protective Coating		455	sq. ft.	0	0	0	455
	CS4 - PCS is ineffective or absent.						
305-Assembly Joint without Seal	3 - Mod.	61	ft.	0	27	26	8
	CS2 - Cracks & small spalls to both headers & deck armor. CS3 - Section loss in berms. Some leakage down both backwalls. CS4 - Asphalt patches at forward header & rear deck armor.						
311-Movable Bearing	3 - Mod.	16	each	0	7	9	0
	CS2 - Surface rust. CS3 - Pack rust & section loss to some rockers, mostly at abutments.						

Inspection Date: 11/13/2024

Structure Number: 1814257

Facility Carried: RAMP SW FROM I-71

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
313-Fixed Bearing	3 - Mod.	4	each	0	2	2	0
	CS2 - Surface rust.						
	CS3 - Some section loss.						
321-Reinforced Concrete Approach Slab	3 - Mod.	1100	sq. ft.	385	650	50	15
	Rear slab has settled. Forward slab is partially paved over with asphalt.						
	CS2 - A few cracks.						
	CS3 - Wide cracks along lowspeed edge line, forward & rear.						
	CS4 - Concrete breakup & asphalt patches at joint headers & relief joints.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	652	ft.	117	505	30	0
	CS2 - Rust-stains from shallow rebar. Leaching cracks. Collision scrapes. Delams. small spalls.						
	CS3 - Wide rust-stained cracks. Spalls, some with exposed rebar.						
521-Concrete Protective Coating		4238	sq. ft.	0	0	0	4238
	CS4 - PCS is ineffective or absent.						
815-Drainage	3 - Mod.	9	each	1	8	0	0
	CS2 - Partially plugged scuppers.						
830-Abutment Backwall	3 - Mod.	91	ft.	39	28	24	0
	CS2 - Cracks, some leaching. Delams.						
	CS3 - A few wide cracks with efflorescent buildup & rust-stains. Spalls with exposed rebar, forward & rear.						
521-Concrete Protective Coating		455	sq. ft.	0	0	0	455
	CS4 - PCS is ineffective or absent.						

Inspector: Gerstenslager,Michael

Structure Number: 1814257

Inspection Date: 11/13/2024

Facility Carried: RAMP SW FROM I-71

ODOT District: District 12

CUY-00071-1007SW_(1814257)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: RAMP SW FROM I-71

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR 480 MAINLINE

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

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

.19 MI. E. OF JCT. I-71

Insp
Resp A:
Resp B:

Inspector

Gerstenslager,Michael

Inspection Date 11/13/2024

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor/Slab

Spalls forming over traffic. Eastbound, bay 1 over lane 1 and bay 3 over lanes 1-3. Westbound, bay 1 over lane 3 and bay 3 over lanes 1, 2, 3 & low-speed berm.

Approach

Approach Wearing Surface

Some cracks.

Approach Embankment

Minor erosion at rear-right.

Approach Guardrail

Right concrete railing is compression spalled at rear joint. Collision damage to rear-right and forward-left guardrails.

Inspector Comments - General Appraisal

Superstructure

Superstructure Alignment

Dip in right parapet at rear joint.

Diaphragm/X-Frames

Chalking & peeling paint throughout. Surface rust. Rusting section loss to end frames.

Substructure

Wingwalls

A few cracks & spalls.

Culvert

Inspector: Gerstenslager, Michael

Structure Number: 1814257

Inspection Date: 11/13/2024

Facility Carried: RAMP SW FROM I-71

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

Inspector: Michael Gerstenslager

Inspection Date: 11/13/2024

Structure Number: 1814257

Facility Carried: RAMP SW FROM I-71

Bridge Inspection Report

Pictures