

Inspector: Miller,Jason
 Inspection Date: 10/25/2023

Structure Number: 1808192
 Facility Carried: S MARGINAL RD (CR7)

Ohio Bridge Inspection Summary Report

CUY-00090-1815 (1808192)

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

5A: Inventory Route 1 14708

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 04 - City or Municipal Highway Agency /
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On S MARGINAL RD (CR7)
 6: Feature Ints IR-90 (S. MARGINAL)
 9: Location .38 E. OF JCT. US-6
 Lat, Lon 41.516135 ,-81.675466

Condition		Structure Type	
58: Deck	8 - Very Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	7- Good (no leaking)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	5 - Fair (10-15% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory Condition	408: Composite Deck	Y - Composite Construction
61: Channel	N	414A Joint Type 1	8 - Elastomeric Strip Seal
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)
			N- Not Applicable
67.01 GA	6	422: WS Date	10/01/2013

Appraisal	
Sufficiency Rating	87.3 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

423: WS Thick (in)	1.0
482: Protective Coating	A - EEU
483: PCS Date	10/01/1987
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)	68.0
49: Structure Length (ft)	230.0
52: Deck Width, Out-To-Out (ft)	31.0
424: Deck Area (sf)	7130
32: Appr Roadway Width (ft)	24.0
51: Road Width, Curb-Curb (ft)	28.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	7
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	15.54
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	1959 / 2012
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	978
109: % Trucks (%)	4

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	07/01/2013
	6 - Load Factor (LF) rating reported by

Inspections		
	Months	
90: Routine Insp.	12	10/25/2023
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0 06/05/2012
92D: UBIT Insp.	N	0
92E: Drone Insp.	N	0
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63: Analysis Method	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
12-Reinforced Concrete Deck	3 - Mod.	7130	sq. ft.	6880	250	0	0
CS2 - A few transverse cracks.							
805-Wearing Surface - Monolithic Concrete		5520	sq. ft.	5420	100	0	0
CS2 - Area of scaling at forward in westbound lane. Transverse cracks, many propagating from cracks to concrete parapets.							
107-Steel Open Girder/Beam	3 - Mod.	904	ft.	800	79	25	0
CS2 - Surface rust.							
CS3 - Areas of pack rust & sheeting to lower flanges & a few beam ends.							
515-Steel Protective Coating		8280	sq. ft.	0	7205	1000	75
CS2 - Chalking & faded paint throughout.							
CS3 - Areas of blistered & bubbling coats. Cracking & peeling, mostly to lower flanges.							
CS4 - A few areas of bare rusting steel to flanges & beam ends.							
205-Reinforced Concrete Column	3 - Mod.	9	each	8	1	0	0
Collision damage to westbound median wall encasing P2 columns. P2C3 exposed to traffic.							
CS2 - Collision scrapes to P1C1.							
521-Concrete Protective Coating		966	sq. ft.	950	0	0	16
CS4 - PCS is ineffective.							
215-Reinforced Concrete Abutment	3 - Mod.	63	ft.	51	5	7	0
CS2 - A few, mostly vertical cracks. Rust-stains from shallow rebar.							
CS3 - Wide horizontal crack to forward in bay 3.							
521-Concrete Protective Coating		252	sq. ft.	240	0	0	12
CS4 - PCS is ineffective.							
234-Reinforced Concrete Pier Cap	3 - Mod.	107	ft.	84	15	7	1
CS2 - A few cracks. A few shallow spalls. Delams to forward face of P1, along rear face of P2 and forward face of P3.							
CS3 - Spalls with exposed rebar to rear face of P2 below bays 1 & 2. Spall with exposed rebar to bottom edge of P3.							
CS4 - Spall with 360° exposed rebar to rear face of P2, below left fascia.							
521-Concrete Protective Coating		1107	sq. ft.	1084	0	0	23
CS4 - PCS is ineffective.							
300-Strip Seal Expansion Joint	3 - Mod.	48	ft.	12	36	0	0
CS2 - Some surface rust. Areas of loose dirt & debris in joints.							
311-Movable Bearing	3 - Mod.	16	each	13	3	0	0
CS2 - Initiated surface rust to a few pier bearings.							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
313-Fixed Bearing	3 - Mod.	4	each	4	0	0	0
Fixed at P2.							
321-Reinforced Concrete Approach Slab	3 - Mod.	720	sq. ft.	520	50	150	0
CS2 - A few cracks. CS3 - Wide transverse crack along header at forward & rear. Longitudinal cracks, mostly to forward slab.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	460	ft.	360	100	0	0
CS2 - Vertical cracks, some leaching. Some scaling & small pop outs to right railing near forward.							
521-Concrete Protective Coating		3680	sq. ft.	1840	0	0	1840
CS4 - PCS is ineffective.							
815-Drainage	3 - Mod.	2	each	2	0	0	0
830-Abutment Backwall	3 - Mod.	63	ft.	60	3	0	0
CS2 - A few vertical cracks.							
521-Concrete Protective Coating		315	sq. ft.	0	0	0	315
CS4 - PCS is ineffective.							

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ODOT District: District 12

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Date Built: 07/01/1959

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date: 07/01/2012

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: IR-90 (S. MARGINAL)

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

.38 E. OF JCT. US-6

Insp Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Some surface rusting.

Fatigue

Welded cover plates at piers. 1" by 3/4" steel bar welded to bottom of the lower flange of right fascia near both abutments.

Utilities

Disconnected & misaligned conduit at abutments.

Substructure

Slope Protection

Cracks. 33" of undermining at top of forward embankment under bay 4.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

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Scour Critical