

Inspector: Persanyi,Andrea
 Inspection Date: 12/14/2022

Structure Number: 1801716
 Facility Carried: CR-398 ELLA AVE

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00014-0559 (1801716)

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

5A: Inventory Route 1 00398

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 CR-398 ELLA AVE
 6: Feature Ints SR-14EB (BROADWAY AVE)
 9: Location APPROX .5MI S HARVARD BLV
 Lat, Lon 41.44262069 , -81.62311794

Condition

58: Deck **5 - Fair Condition**
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)
 58.02 Joint 5- Fair (obvious leaking, 1" offset)
59: Superstructure **7 - Good Condition**
 59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)
60: Substructure **7 - Good Condition**
61: Channel **6**
 61.01 Scour **7 - Good**
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 76.3 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 8 - Stable for scour conditions
 71: Waterway Adequacy 8 - Bridge Above Approaches

422: WS Date 02/23/2012
 423: WS Thick (in) 1.25
 482: Protective Coating 4 - Paint System B
 483: PCS Date 01/01/1986
 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 4 - Spread Footing (on Soil)
 536: Foundn: Pier 1 4 - Spread Footing (on soil)
 539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 77.0
 49: Structure Length (ft) 271.0
 52: Deck Width, Out-To-Out (ft) 39.0
 424: Deck Area (sf) 10569
 32: Appr Roadway Width (ft) 28.0
 51: Road Width, Curb-Curb (ft) 28.0
 50A: Curb/SW Width: Left (ft) 2.2
 50A: Curb/SW Width: Right (ft) 5.7
 34: Skew (deg) 27
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 18.03
 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 1960 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 6 - Highway - waterway
 28A: Lanes on 03
 28B: Lanes Under 02
 19: Bypass Length 2
 29: ADT 9170
 109: % Trucks (%) 7

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

Inspections

	Months	
90: Routine Insp.	12	12/14/2022
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

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63: Analysis Method 6 - Load Factor (LF) rating reported 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
12-Reinforced Concrete Deck	3 - Mod.	10569	sq. ft.	6743	2750	1076	0
CS2- Leached cracks. CS3- Transverse leaching cracks with stalactites. Mottled areas with stalactites, spalls & delams. Rear-left deck corner rests on cheekwall & is spalled. Many spalls with exposed rebar (including a badly deteriorated abandoned light post mount on right edge).							
805-Wearing Surface - Monolithic Concrete		7588	sq. ft.	4988	2600	0	0
CS2- Many cracks, some wide. Some areas of map cracking.							
107-Steel Open Girder/Beam	3 - Mod.	1626	ft.	1381	245	0	0
CS2- Rusted section loss at beam ends & along lower flanges. Scuff marks to lower flanges of beams 4-6 over mill creek path.							
515-Steel Protective Coating		14844	sq. ft.	240	10734	3600	270
CS2- Chalking. CS3- Rust. Peeling paint. CS4- Complete paint failure. Note: beam ends painted 10/12.							
205-Reinforced Concrete Column	3 - Mod.	9	each	4	3	2	0
CS2- P2C3 - honeycombed/spall at base P3C2 <8' delams P3C3 <8' delams CS3 - P2C1 - honeycombed/spall with rebar exposure P2C2- honeycombed/spall with rebar exposure							
215-Reinforced Concrete Abutment	3 - Mod.	98	ft.	84	14	0	0
CS2- Cracks. Rust stains. Delams at rear.							
234-Reinforced Concrete Pier Cap	3 - Mod.	145	ft.	135	10	0	0
CS2- Cracks.							
305-Assembly Joint without Seal	3 - Mod.	78	ft.	0	75	0	3
CS2- Some gouges to armor. Water stains & dirt down both backwalls & abutments. Dirt and debris in joint. CS4- Cracks to forward-right & both rear curb/cover plates. Rusting thru holes to rear-right & forward-left curb/cover plates.							
311-Movable Bearing	3 - Mod.	24	each	24	0	0	0
313-Fixed Bearing	3 - Mod.	6	each	6	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	1950	sq. ft.	0	1880	70	0
CS2- Paved over with asphalt. cracks. CS3- Wide cracks.							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
331-Reinforced Concrete Bridge Railing	3 - Mod.	542	ft.	495	47	0	0
	CS2- Cracks. Areas of concrete deterioration. Concrete patches.						
815-Drainage	3 - Mod.	11	each	0	0	4	7
	CS3- Partially plugged scuppers.						
	CS4- Plugged scuppers. Downspout clogged over park path.						
830-Abutment Backwall	3 - Mod.	98	ft.	98	0	0	0

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ODOT District: District 12

CUY-00014-0559 _(1801716)

Date Built: 07/01/1960

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: SR-14EB (BROADWAY AVE)

Traffic Under: 6 - Highway - waterway

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

APPROX .5MI S HARVARD BLV

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 12/14/2022

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Floor (SF)

Spalls forming over traffic in bays 1-4 and south deck edge over #1 lane. Spalls forming over bike path, north deck edge and in south bay next to south fascia beam.

Curbs/Sidewalk (LF)

Cracks. Delams. Concrete patches.

Approach

Approach Wearing Surface (EA)

Cracks. Minor rutting. Asphalt patch in rear lane 2. Breaking up areas at rear.

Approach Guardrail (EA)

Post rot. Collision damage to both rear guardrails.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Rusting section loss to endframes. Damaged xframe in bay 4 near mill creek path.

Fatigue (LF)

Welded cover plates at piers.

Substructure

Abut. Colmns/Bents (EA)

Top of right abutment column exposed at rear (see slope protection comments).

Wingwalls (EA)

Leaching cracks with efflorescence at forward-right.

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Slope Protection (EA)

Longitudinal voids as deep as 6' in rear slope at right corner of abutment with top of right abutment column exposed. As much as 12" of forward abutment footing exposed for a length of 15' under left scuppers.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection (LF)

Small voids in south wall. Some rip-rap has washed away from north side.

Scour Critical