

Inspector: Persanyi,Andrea

Inspection Date: 04/11/2023

Structure Number: 1813099

Facility Carried: LANCASTER DR.

Ohio Bridge Inspection Summary Report

CUY-00480-1686 (1813099)

2: District 09274 - BROOKLYN HEIGHTS (CUY county)
ict
12

5A: Inventory Route 1 02157

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

7: Facility On LANCASTER DR.

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

6: Feature Ints IR480

221 Inspection A/B 01 - State Highway Agency /

9: Location 1.0 MI. E. OF JCT. SR-17

220: Inv. Location DISTRICT 12

Lat, Lon 41.410133 ,-81.666517

Condition

Structure Type

58: Deck **5 - Fair Condition**
 58.01 Wearing Surface 4 - Poor (advanced)
 58.02 Joint 6- Satisfactory (isolated leaking)

59: Superstructure **7 - Good Condition**
 59.01 Paint & PCS 8 - Very Good (up to 1% corr.)

60: Substructure **6 - Satisfactory Condition**

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

62: Culverts **N - Not Applicable**

67.01 GA **6**

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

45: Spans Main / Approach 5 / 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 3 - Latex Concrete or similar
 additive
 N- Not Applicable

Appraisal

Age and Service

Sufficiency Rating 70.3 SD/FO 2 - FO

36: Rail, Tr, Gd, Term Std 1 0 0 0

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 07/01/1977

423: WS Thick (in) 1.2

482: Protective Coating 5 - Paint System OZEU

483: PCS Date 07/31/2012

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) 110.0

49: Structure Length (ft) 452.0

52: Deck Width, Out-To-Out (ft) 40.4

424: Deck Area (sf) 18260.8

32: Appr Roadway Width (ft) 26.0

51: Road Width, Curb-Curb (ft) 26.0

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

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

34: Skew (deg) 6

33: Bridge Median 0 - No median

54B: Min Vert Underclearance (ft) 31.58

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 1977 / 0000

42A: Service On 1 - Highway

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

28A: Lanes on 02

28B: Lanes Under 09

19: Bypass Length 3

29: ADT 18120

109: % Trucks (%) 3

Load Posting

Inspections

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 6 - Load Factor (LF) rating reported by
rating factor (RF) method using MS18
loading.

	Months	
90: Routine Insp.	12	04/11/2023
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	Y	60 07/16/2018
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
12-Reinforced Concrete Deck	3 - Mod.	18268	sq. ft.	12768	5000	500	0
<p>CS2 - Rust stains from rebar chairs. Transverse cracks, some leaching. Other cracks.</p> <p>CS3 - Mottled areas with efflorescence and rust stains, mainly to south half of bridge. Spalls. Delams. Saturated areas in deck correspond with asphalt patches above, spans 2 & 5 are worst.</p>							
805-Wearing Surface - Monolithic Concrete		11752	sq. ft.	5577	5500	300	375
<p>Few sound concrete patches.</p> <p>CS2 - Areas of map cracking throughout. Many transverse cracks. Other cracks. Cracked concrete patches</p> <p>CS3 - Delaminated areas around patches. Other delaminated areas. Saturation around patches.</p> <p>CS4 - Many asphalt patches. Areas of rough broken up concrete with asphalt patches.</p>							
107-Steel Open Girder/Beam	3 - Mod.	2260	ft.	2230	10	20	0
<p>CS2 - Isolated rusted section loss to beam ends at abutments.</p> <p>CS3 - Lower splice plate bolt not fully seated to right fascia in span 2. Measurable section loss, mostly at forward.</p>							
515-Steel Protective Coating		26770	sq. ft.	26720	50	0	0
<p>CS2 - Areas of isolated surface rust.</p>							
205-Reinforced Concrete Column	3 - Mod.	12	each	6	3	3	0
<p>CS1: P1C1 - scaling P3C3 - scaling CS2: P2C2 - 6 sf delam. P2C3 - 4 sf delam. P3C2 - 4 sf delam CS 3: P3C1 - 4 sf of spalling with exposed rebar and 3 sf delam. P4C2 - 6 sf spall with exposed rebar and scaling. P4C1 - 10 sf spall with exposed rebar and 3 sf delam.</p>							
521-Concrete Protective Coating		49104	sq. ft.	49104	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	80	ft.	67	12	1	0
<p>Rust stains to both.</p> <p>CS2 - Cracks, mostly vertical.</p> <p>CS3 - 1 sf sealed spall at rear in bay 1.</p>							
521-Concrete Protective Coating		240	sq. ft.	240	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	160	ft.	156	4	0	0
<p>Areas of peeling sealer. Rust staining.</p> <p>CS2 - Few cracks.</p>							
521-Concrete Protective Coating		1840	sq. ft.	1840	0	0	0

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305-Assembly Joint without Seal	3 - Mod.	80	ft.	0	68	12	0
<p>CS2 - 1/2 width concrete patch to rear header in Northbound lane. Minor section loss to armor and riser bar in both joints. Full width concrete patch to forward joint, some cracks. Areas of dirt and debris.</p> <p>CS3 - 2' spall to patch at forward Southbound. Asphalt patches to rear exjt header in southbound lane. Evidence of leakage at rear in bay 2 and forward bays 2 and 3.</p>							
311-Movable Bearing	3 - Mod.	25	each	17	8	0	0
CS2 - Surface rust to most abutment bearings.							
313-Fixed Bearing	3 - Mod.	5	each	5	0	0	0
Note: washers welded to keeper plates of bolster 2 on P3.							
321-Reinforced Concrete Approach Slab	3 - Mod.	1040	sq. ft.	963	75	2	0
<p>CS2 - Full width cracks to both as wide as 1/16".</p> <p>CS3 - Asphalt patch and shallow spall at rear in Southbound lane.</p>							
331-Reinforced Concrete Bridge Railing	3 - Mod.	904	ft.	774	110	20	0
<p>Rusting section loss to some fence hardware.</p> <p>CS2 - Small delaminations and cracks throughout. Areas of peeling sealer with scaling underneath.</p> <p>CS3 - Rust stained cracks. Spall with exposed rebar to East railing. Other minor spalls. Deteriorating concrete below some fence post anchors to east railing. Minor delams.</p>							
521-Concrete Protective Coating		9790	sq. ft.	9790	0	0	0
815-Drainage	3 - Mod.	12	each	8	4	0	0
CS2 - Some scuppers partially plugged.							
830-Abutment Backwall	3 - Mod.	80	ft.	50	23	7	0
<p>Utility cut outs in forward & rear bay 2. Rust stained.</p> <p>CS2 - Cracks, some leaching. Leaching cracks in bay 1 at forward.</p> <p>CS3 - 4 Lf spall with exposed rebar in bay 4 at rear. 1 Lf spall with exposed rebar in forward bay 4.</p>							

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ODOT District: District 12

Date Built: 07/01/1977

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: IR480

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 09274 - BROOKLYN HEIGHTS (CUY county)

Location: DISTRICT 12

1.0 MI. E. OF JCT. SR-17

Insp Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Deck was rated a "5" in 2022 due to leaching cracks, saturated areas, few "hot spots", and spalls.

W/S was rated a "4" in 2022 due to many asphalt patches throughout with hot spots.

Floor/Slab

Spalls forming over westbound traffic in bays 3 and 4 over lanes 3 and 4. Spalls forming over eastbound traffic in bays 2 over lane 3. Rail spall forming over traffic to right rail over W/B exit lane #2.

Curbs/Sidewalk

Cracks. Many concrete patches. A few delams & spalls.

Approach

Approach Embankment

Erosion to rear-left corner with minor undermining of sidewalk. Thru crack to rear-right approach walk. Spall / break up to forward-right curb.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Rusting thru holes to horizontal end frame angles in rear bay 1 and forward bays 1 & 4.

Substructure

Slope Protection

Cracks. Uneven settlement/ undermining to forward CSP. 10" gap between abutment & top of forward CSP, filled with material.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures