

Inspector: Ropelewski,Robert
 Inspection Date: 07/26/2023

Structure Number: 1808079
 Facility Carried: USR 6

Ohio Bridge Inspection Summary Report

CUY-00006-1672 (1808079)

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

5A: Inventory Route 1 00006

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 USR 6
 6: Feature Ints IR-90 (SUPERIOR)
 9: Location JCT. US-6
 Lat, Lon 41.509906 ,-81.672081

Condition

58: Deck **6 - Satisfactory Condition**
 58.01 Wearing Surface 7 - Good (1% distress)
 58.02 Joint 6- Satisfactory (isolated leaking)
59: Superstructure **7 - Good Condition**
 59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)
60: Substructure **7 - Good Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**

67.01 GA **7**

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 8 - Elastomeric Strip Seal
 414B: Joint Type 2 N - None
 108A: Wearing Surface 1 - Monolithic Concrete
 (concurrently placed with structural deck)
 N- Not Applicable
 422: WS Date 01/01/1993
 423: WS Thick (in) 2.0
 482: Protective Coating 0 - Other Paint
 483: PCS Date 01/01/1987
 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

Appraisal

Sufficiency Rating 93.2 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

Geometric

48: Max Span Length (ft) 70.0
 49: Structure Length (ft) 224.0
 52: Deck Width, Out-To-Out (ft) 95.1
 424: Deck Area (sf) 21302.4
 32: Appr Roadway Width (ft) 81.0
 51: Road Width, Curb-Curb (ft) 81.1
 50A: Curb/SW Width: Left (ft) 8
 50A: Curb/SW Width: Right (ft) 8
 34: Skew (deg) 13
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 15.66
 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 / 1993
 42A: Service On 1 - Highway
 42B: Service Under 1 - Highway, with or w/out
 pedestrian
 28A: Lanes on 06
 28B: Lanes Under 07
 19: Bypass Length 2
 29: ADT 12298
 109: % Trucks (%) 1

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
 6 - Load Factor (LF) rating reported by

Inspections

	Months	
90: Routine Insp.	12	07/26/2023
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 Ropelewski,Robert

Inspector:	Ropelewski,Robert	Structure Number:	1808079
Inspection Date:	07/26/2023	Facility Carried:	USR 6
63: Analysis Method	rating factor (RF) method using MS18 loading.		

Inspector: Ropelewski,Robert
Inspection Date: 07/26/2023

Structure Number: 1808079
Facility Carried: USR 6

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	21302	sq. ft.	16552	4000	750	0
Bridge subdecked in 2020. CS2 - Transverse leached cracks. Other cracks. Areas of full-depth repairs in end spans bays 2,3, and 5. CS3 - Large mottled areas. Haunch spalls. Rust stains.							
805-Wearing Surface - Monolithic Concrete		18163	sq. ft.	17813	350	0	0
Micro silica deck overlay in 2020 to north half only. CS2 - Minor cracks to EB lanes.							
107-Steel Open Girder/Beam	3 - Mod.	2688	ft.	1876	806	6	0
CS2 - Surface rust throughout. CS3 - Section loss to some beam ends at forward.							
515-Steel Protective Coating		27288	sq. ft.	0	22818	4200	270
CS2 - Surface dulling/Chalking. CS3 - Blistered paint and peeling coats. CS4 - Unprotected steel, exposure of bare metal.							
205-Reinforced Concrete Column	3 - Mod.	24	each	0	24	0	0
CS2- All columns fiber wrapped. Some areas of air bubbles behind fiber wrap on columns.							
521-Concrete Protective Coating		2304	sq. ft.	2304	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	196	ft.	145	40	11	0
Areas of sealed scaling. Rust stained spots. CS2 - Cracks. A few small sealed spalls. Some delams to abutment seat. CS3 - Few spalls. Spall to forward-right cheekwall.							
521-Concrete Protective Coating		784	sq. ft.	772	0	0	12
CS4 - Coating not effective.							
234-Reinforced Concrete Pier Cap	3 - Mod.	293	ft.	55	238	0	0
Spalled area over P2C1 to light pole base. CS2 - All pier caps are fiber wrapped. Cracks to non-wrapped areas at center pier. Shallow spall above P3C8. Shallow spall with surrounding delam above P2C6.							
521-Concrete Protective Coating		3358	sq. ft.	3000	0	0	358
CS4 - Coating not effective.							
300-Strip Seal Expansion Joint	3 - Mod.	190	ft.	74	77	25	14
Construction joint seal along approach slab torn out in some spots. CS2 - Dirt & debris in seals. Pop outs along both ExJts. Many cracks. CS3 - Gouges to rear armor. Heavy pattern map cracks. CS4 - Asphalt patches in headers.							

Inspector: Ropelewski,Robert
 Inspection Date: 07/26/2023

Structure Number: 1808079
 Facility Carried: USR 6

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
311-Movable Bearing	3 - Mod.	48	each	24	22	2	0
CS2 - Surface rust. CS3 - Left fascia abutment bearings have heavy pack rust forming between rocker and masonry plate.							
313-Fixed Bearing	3 - Mod.	12	each	10	2	0	0
CS2 - Surface rust to fascia bearings.							
321-Reinforced Concrete Approach Slab	3 - Mod.	3800	sq. ft.	3516	190	90	4
9ft of each approach slab is paved over. CS2 - Some cracks to both concrete and asphalt. CS3 - Few full-length cracks, as wide as 1/8". Spalling along some construction joints. CS4 - Asphalt patches.							
331-Reinforced Concrete Bridge Railing	3 - Mod.	448	ft.	406	42	0	0
CS2 - Vertical cracks, some leaching. Shallow spalls.							
521-Concrete Protective Coating		2688	sq. ft.	2420	0	0	268
Rust stains at some fence post bases. CS4 - Coating not effective.							
815-Drainage	3 - Mod.	4	each	0	1	0	3
CS2 - Rear left scupper packed with dirt but still allows water to drain. CS4 - Both forward and rear right scuppers are plugged on deck with dirt and debris							
830-Abutment Backwall	3 - Mod.	196	ft.	164	20	12	0
CS2 - Cracks and delams. CS3 - Spalls to forward bays 2 and 8. Spalls to bay 8 at rear.							
521-Concrete Protective Coating		588	sq. ft.	576	0	0	12
CS4 - Coating not effective.							

Inspector: Ropelewski,Robert

Structure Number: 1808079

Inspection Date: 07/26/2023

Facility Carried: USR 6

ODOT District: District 12

CUY-00006-1672 _(1808079)

Date Built: 07/01/1959

Major Maint: 01 - State Highway Agency

Facility Carried: USR 6

Traffic On: 1 - Highway

Rehab Date: 01/01/1993

Routine Maint: 04 - City or Municipal Highway
Agency

Feature Inters: IR-90 (SUPERIOR)

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

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

JCT. US-6

Resp A:

Insp

Resp B:

Inspector

Ropelewski,Robert

Inspection Date 07/26/2023

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Inspection Note: West abutment is rear.

Curbs/Sidewalk

Areas of heavy scaling, transverse & map cracks, shallow spalls along left curb, concrete patches.

Approach

Approach Wearing Surface

Cracks, small asphalt patches, breaking up areas.

Approach Embankment

Minor erosion at both forward wingwalls. As much as 14" vertical face of forward-left wingwall footing exposed.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders

Welds to girder web at utility supports & abandoned attachments. Uncoped triaxial welds over piers.

Diaphragm/X-Frames

Surface rust throughout. Rusting thru hole in forward endframe #2 (supports utilities). Diagonal angle of first xframe from rear in bay 9 is bent & the weld to beam 10 is cracked.

Fatigue

Welded moment plates at piers with some top flange bolted retrofits.

Utilities

Rusting throughout, rusting thru holes with rust severed conduit at abutments. Utilities leaking in rear bays 2 & 8 and forward bay 2.

Substructure

Inspector: Ropelewski,Robert

Structure Number: 1808079

Inspection Date: 07/26/2023

Facility Carried: USR 6

Wingwalls

Thru cracks as wide as 1/8" to both forward wingwalls.

Slope Protection

Some cracks.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical