

Ohio Bridge Inspection Summary Report

GEA-00322-1941 (2801507)

2: District 12 36946 - HUNTSBURG TWP (GEA county)
 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

5A: Inventory Route 1 00322
 7: Facility On USR 322
 6: Feature Ints PHELPS CRK 1.59 MI E 528
 9: Location 1.6 MI N SR528
 Lat, Lon 41.53505 , -81.020758

Condition

58: Deck **4 - Poor Condition**
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)
 58.02 Joint N- Not Applicable
59: Superstructure **4 - Poor Condition**
 59.01 Paint & PCS N - Not Applicable
60: Substructure **5 - Fair Condition**
61: Channel **6**
61.01 Scour **6 - Satisfactory**
62: Culverts **N - Not Applicable**

67.01 GA **4**

Appraisal

Sufficiency Rating 63.8 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 8 - Stable for scour conditions
 71: Waterway Adequacy 8 - Bridge Above Approaches

Geometric

48: Max Span Length (ft) 38.0
 49: Structure Length (ft) 99.0
 52: Deck Width, Out-To-Out (ft) 40.0
 424: Deck Area (sf) 3960
 32: Appr Roadway Width (ft) 40.0
 51: Road Width, Curb-Curb (ft) 40.0
 50A: Curb/SW Width: Left (ft) 0
 50A: Curb/SW Width: Right (ft) 0
 34: Skew (deg) 25
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 0
 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 07/01/1973
 63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Structure Type

43: Bridge Type 2 - Concrete continuous
 01 - Slab
 N- Not Applicable
 45: Spans Main / Approach 3 / 0
 107: Deck Type 1 - Concrete Cast-in-Place
 408: Composite Deck N - Non-composite Construction
 414A Joint Type 1 N - None
 414B: Joint Type 2 N - None
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
 N- Not Applicable
 422: WS Date 10/31/2004
 423: WS Thick (in) 3.1
 482: Protective Coating N - None or Not Applicable
 483: PCS Date
 453: Bearing Type 1 N - None
 455: Bearing Type 2 N - None
 528: Foundn: Abut Fwd 4 - Spread Footing
 533: Foundn: Abut Rear 4 - Spread Footing
 536: Foundn: Pier 1 4 - Spread Footing
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Age and Service

27: Year Built/ 106 Rehab 1955 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 02
 28B: Lanes Under 00
 19: Bypass Length 2
 29: ADT 3445
 109: % Trucks (%) 8

Inspections

90: Routine Insp. *Months* 12 08/02/2021
 92A: FCM Insp. N
 92B: Dive Insp. N
 92C: Special Insp. N
 92D: UBIT Insp. N
 92E: Drone Insp.
 Inspector Banaszak, Ken

Inspector: Ken Banaszak
 Inspection Date: 08/02/2021

Structure Number: 2801507
 Facility Carried: USR 322

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	3 - Mod.	3960	sq. ft.	1550	1500	510	400
	<p>CS2- Minor cracks thru out.</p> <p>CS3- Delams and spalls along longitudinal cracks with areas of leaching, mottling, stalactites, and rust staining (mainly near center line). Other spalls with exposed rebar near abutments.</p> <p>CS4- Failed patches and large spalls along both deck edges fully exposes the 1st and 2nd longitudinal rebar, some of which hangs down in the middle span.</p>						
510 - Wearing Surfaces		3960	sq. ft.	444	3500	16	0
	<p>CS2- Large areas of map cracking, heaviest near center line. Diagonal cracks that run parallel with the pier caps below. Other cracks. Large scaling areas.</p> <p>CS3- Some delams. 6SF broken up asphalt patch in EB lane at forward.</p>						
205 - Reinforced Concrete Column	3 - Mod.	6	each	6	0	0	0
	<p>CS1- Minor spall to P1C1 Minor delam to P2C1</p>						
215 - Reinforced Concrete Abutment	3 - Mod.	88	ft.	0	55	18	15
	<p>CS2- Both abutments have rust staining and heavy calcium deposits for entire length.</p> <p>CS3- Spalls at forward and rear left.</p> <p>CS4- Undermining of forward abutment, void extends 3.5' under abutment cap & is 15' wide.</p>						
234 - Reinforced Concrete Pier Cap	3 - Mod.	88	ft.	73	5	10	0
	<p>CS2- Leaching cracks.</p> <p>CS3- Dealms and spalls to both ends of P1 and the left end of P2.</p>						
321 - Reinforced Concrete Approach Slab	3 - Mod.	800	sq. ft.	618	150	32	0
	<p>CS2- Cracking along center line. Near full length crack in rear WB lane. Other minor cracks.</p> <p>CS3- Both slabs have thru cracked at corners adjacent to deck. Some concrete break up.</p>						
331 - Reinforced Concrete Bridge Railing	3 - Mod.	198	ft.	148	50	0	0
	<p>CS2- Vertical cracks to both rail approximately 4' spacing. Minor spalls to right rail.</p>						
815 - Drainage	3 - Mod.	2	each	0	2	0	0
	<p>CS2- Debris in both berms.</p>						

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840 - Approach Slab: Termination or Joint	3 - Mod.	48	ft.	14	32	2	0
CS2- Some cracking and minor asphalt break up. Areas of uneven ride. CS3- Small pothole to forward EB.							

ODOT District: 12

GEA-00322-1941_(2801507)

Date Built: 07/01/1955

Major Maint: 01 - State Highway Agency

Facility Carried: USR 322

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: PHELPS CRK 1.59 MI E 528

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 36946 - HUNTSBURG TWP (GEA county)

Location: DISTRICT 12

1.6 MI N SR528

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date 08/02/2021

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Cracks. Minor break up along approach slabs. A few small potholes.

Approach Embankment

Erosion at rear right. Minor erosion at rear-left between guardrail posts 7 and 8, and forward-left at guardrail post 12.

Approach Guardrail

Areas of surface rust.

Inspector Comments - General Appraisal

Superstructure

Substructure

Substructure Scour

Tops of all 3 P2 pier footings are exposed (footings are on rock).

Slope Protection

Forward slope has slid, causing a void under abutment cap, exposing abutment columns (void extends 3.5' under cap & is 15' wide). As much as 18" vertical face of rear abutment cap footer is exposed near center & left end.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection (LF)

Some stone have washed away.

Scour Critical

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Pictures