Ohio Bridge Inspection Summary Report

LAK-00090-1031 (4304179)

2: DistrictDistr 40670 - KIR ict 12	TLAND HILLS (LAK county)	5A: Inventory Route 1	M0507			
21: Major Maint A/B 01	- State Highway Agency /	7: Facility On LT MNTN	RD			
225 Routine Main A/B 01	- State Highway Agency /	6: Feature Ints I-90				
221 Inspection A/B 01	- State Highway Agency /	9: Location APPROX 1MI E SR615				
220: Inv. Location DISTRICT 12		Lat, Lon 41.647936	,-81.324447			
	Condition	St	ructure Type			
58: Deck	7 - Good Condition	43: Bridge Type 4 - St	teel continuous			
58.01 Wearing Surface	7 - Good (1% distress)	02 - Stringer/Multi-beam or Girder				
58.02 Joint	5- Fair (obvious leaking, 1" offset)		ot Applicable			
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach 6 / 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	N - Non-composite Construction			
61: Channel	N	414A Joint Type 1	2 - Sliding Metal Plate Angle			
61.01 Scour	N - Not Applicable	414B: Joint Type 2 N - None				
62: Culverts	N - Not Applicable	108A: Wearing Surface	3 - Latex Concrete or similar			
67.01 GA	6		additive N- Not Applicable			
	Appraisal	422: WS Date	08/31/2005			
Sufficiency Rating	71.3 SD/FO 0 - ND	423: WS Thick (in)	1.2			
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	5 - Paint System OZEU			
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	10/21/2001			
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	2 - Rockers & Bolsters			
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None			
The traterinal readquates		528: Foundn: Abut Fwd	,			
Geometric			1 - Steel H Piles (Other Size)			
48: Max Span Length (ft)	87.0	536: Foundn: Pier 1	1 - Steel H Piles (Other size)			
49: Structure Length (ft)	478.0	539: Foundn: Pier 2	0 - Other			
52: Deck Width, Out-To-Ou		Age	e and Service			
424: Deck Area (sf)	16395.4	27: Year Built/ 106 Reha				
32: Appr Roadway Width (f	•	42A: Service On	1 - Highway			
51: Road Width, Curb-Curb		42B: Service Under	1 - Highway, with or w/out			
50A: Curb/SW Width: Left (50A: Curb/SW Width: Right		28A: Lanes on	pedestrian 02			
•		28B: Lanes Under	04			
34: Skew (deg)	35		2			
33: Bridge Median	0 - No median	19: Bypass Length 29: ADT	4194			
54B: Min Vert Underclearar		109: % Trucks (%)	8			
336A: Min Vert Clrnce IR C		109. % Trucks (%)	8			
336B: Min V Clr IR Non-Ca		Ins	pections			
578: Culvert Length (ft)	0	OO. Davida a lasa	Months			
	Load Posting	90: Routine Insp.	12 06/09/2022			
41: Op/Post/Closed A - Open		92A: FCM Insp. N	0			
70: Posting 5 - Equal to	or above legal loads	92B: Dive Insp. N	0			
70.01: Date		92C: Special Insp. N	0			
70.02: Sign Type		92D: UBIT Insp. N	0			
734: Percent Legal (%)	150	92E: Drone Insp. N	0			
704: Analysis Date	09/12/2019	Inspector Persanyi,Ar	ndrea			
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF method using HL-93 loadings.	=)				

Inspector:Andrea PersanyiStructure Number:4304179

Inspection Date: 06/09/2022 Facility Carried: LT MNTN RD

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	16372	sq. ft.	10220	6120	32	0
	CS2- Transverse cracks, some leaching and rust stained. Areas of map cracking. Minor delams.						
	CS3- Some spalls.						
510 - Wearing Surfaces		13384	sq. ft.	12184	1200	0	0
	CS2- Hairline cracks.						
107 - Steel Open Girder/Beam		1888	ft.	1773	100	15	0
	CS2- Rusted section loss at beam ends.						
	CS3- Some deep pitting to webs of fascia beams. Gouge in lower flange of left fascia over WB high speed berm.						
515 - Steel Protective Coating		21224	sq. ft.	5824	15000	350	50
	CS2- Areas over traffic.	of fading.	Surface	rust, mair	nly to lower	r flange an	d xframes
	CS3- Areas of peeling paint.						
	CS4- Areas of bare rusted metal.						
205 - Reinforced Concrete Column	3 - Mod.	20	each	20	0	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	84	ft.	19	50	15	0
	CS2- Cracks, some with rust stains.						
	CS3- Spalls, some with exposed rebar						
234 - Reinforced Concrete Pier Cap		209	ft.	200	8	1	0
	CS2- Minor cracks						
	CS3- Delam above P4C4						
205 Accombly Joint without Soul		I	1	0	67	1	0
305 - Assembly Joint without Seal		68	ft.		67	ı	0
	CS 2- Some section loss, debris in both joints. CS 3- discontinuity in expansion joint armor on approach side at						
	forward left lane line, with no movement.						
311 - Movable Bearing	3 - Mod.	24	each	5	19	0	0
	CS2- Some	pack rust					
		Г	ı				
313 - Fixed Bearing	1	4	each	4	0	0	0
321 - Reinforced Concrete Approach Slab		1700	sq. ft.	1700	0	0	0
	Paved over with asphalt.						

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Element Inspection

331 - Reinforced Concrete Bridge Railing	3 - Mod.	956	ft.	818	135	3	0	
	CS2- Vertical cracks, some leaching. Some missing nuts on aluminum rail post anchor bolts. minor rust to fence hardware. CS3- Minor spalls and delams.							
815 - Drainage		12	each	0	12	0	0	
	CS2- All scuppers are partially plugged.							
830 - Abutment Backwall	3 - Mod.	84	ft.	21	36	27	0	
	CS2- Cracks, minor delams.							
	CS3- Spalls, some with exposed rebar.							

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Major Maint: 01 - State Highway Agency

Facility Carried: LT MNTN RD

Traffic On: 1 - Highway

07/01/1962 Date Built:

ODOT District: District 12

Routine Maint: 01 - State Highway Agency FIPS Code: 40670 - KIRTLAND HILLS (LAK county)

Feature Inters: I-90

Location: DISTRICT 12

Traffic Under: 1 - Highway, with or w/out pedestrian APPROX 1MI E SR615

01 - State Highway Agency Resp A: Insp Resp B:

Rehab Date:

Inspector

Persanyi, Andrea

Inspection Date 06/09/2022

Reviewer Seif, Youssef

<u>Inspector Comments - Deck and Approach</u>

Deck

Curbs/Sidewalk

Cracks. Shallow spalls with exposed wire mesh and rebar. Rust stains. Concrete patches.

Approach

Approach Wearing Surface

Sealed cracks. Small pothole at rear. Asphalt patches.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Diaphragm/X-Frames

End frame rusted section loss with rusted thru holes. Bent end frame angle in rear bay 3. Broken weld between beam 1 & bent horizontal angle of 2nd x-frame from forward abutment in bay 1. Rusted thru hole in endframe gusset plate in forward bay 3.

Fatigue

Welded moment plates at piers.

Utilities

Rusting section loss to conduit, with thru holes at forward backwall. Conduit separations.

<u>Substructure</u>

Slope Protection

As much as 13" of forward abutment footing is exposed below bay 3.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures