Ohio Bridge Inspection Summary Report

loading.

CUY-00422-1627L (1814907)

2: DistrictDistr 72928 - SOLict	ON (CUY county)	5 <i>A</i>	a: Inventory Ro	oute 1	00422	2		
21: Major Maint A/B 01	I - State Highway Agency /	7:	Facility On	USR 422				
225 Routine Main A/B 01	I - State Highway Agency /		Feature Ints	CR-18 (HA	RPER RD)			
221 Inspection A/B 01	I - State Highway Agency /	9:	Location	3.1 MI E I-2	-			
220: Inv. Location DISTRICT 12			Lat, Lon	41.406436		,-81.466944		
	Condition			Str	ucture Ty	ре		
58: Deck	5 - Fair Condition		43: Bridge T	ype 4 - St	eel continuo	us		
58.01 Wearing Surface	6 - Satisfactory (1-10% distress))	02 - Stringer/Multi-beam or Girde					
58.02 Joint	7- Good (no leaking)		N- Not Applicable					
59: Superstructure	6 - Satisfactory Condition		45: Spans M	1ain / Approa	ach 4 / 0			
59.01 Paint & PCS	7 - Good (1-5% corr.)		107: Deck T	уре	1 - Concrete Cast-in-Place			
60: Substructure	7 - Good Condition		408: Compo	site Deck	N - Non-composite Construction			
61: Channel	N		414A Joint T	Гуре 1	2 - Sliding Metal Plate Angle			
61.01 Scour	N - Not Applicable		414B: Joint	Type 2	N - None			
62: Culverts 67.01 GA	N - Not Applicable		108A: Wear	ing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 1- Super Plasticized			
07.01 0A			1422: WS Dat	to	1- Super I	iasticized		
	Appraisal		423: WS Th		1.8			
Sufficiency Rating	97.0 SD/FO 0 - ND			` '	5 - Paint System OZEU			
36: Rail, Tr, Gd, Term Std		1	482: Protective Coating 483: PCS Date		11/07/2009			
72: Approach Alignment	8 - Equal to present desirable cr	riteria	453: Bearing Type 1		2 - Rockers & Bolsters			
113: Scour Critical	N - Not over waterway		455: Bearing Type 2		N - None			
71: Waterway Adequacy	N - Not Applicable		528: Foundn: Abut Fwd		2 - Cast-in-Place Reinforced			
	Geometric			/ .but i wa	Concrete F	Piles (Other diameter)		
48: Max Span Length (ft)	76.0		533: Foundr	n: Abut Rear		Place reinforced		
49: Structure Length (ft)	256.0		536: Foundn: Pier 1		Concrete Piles (Other diameter) 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)			
52: Deck Width, Out-To-Out (ft) 72.5			539: Foundr	n: Pier 2	0 - Other			
424: Deck Area (sf)	18560		Age and Service			ice		
32: Appr Roadway Width (f	t) 71.0		27: Year Bu			/ 0000		
51: Road Width, Curb-Curb	o (ft) 69.5		42A: Service		1 - Highw			
50A: Curb/SW Width: Left (42B: Service	_	1 - Highway, with or w/out pedestrian			
50A: Curb/SW Width: Right	t (ft) 0		28A: Lanes	on	03			
34: Skew (deg)	40		28B: Lanes	Under	04			
33: Bridge Median	0 - No median		19: Bypass I	Length	0			
54B: Min Vert Undercleara			29: ADT		24975			
336A: Min Vert Clrnce IR C			109: % Truc	ks (%)	6			
336B: Min V Clr IR Non-Cardinal (ft) 0				Inc	pections			
578: Culvert Length (ft)	0			IIIə				
	Load Posting		90: Routine	-	Months 12	06/14/2022		
41: Op/Post/Closed	A - Open		92A: FCM Ir	-	0			
70: Posting 5 - Equal to or above legal loads			92B: Dive In	•	0			
70.01: Date	Ç		92C: Specia	-	0			
70.02: Sign Type			92D: UBIT I	•	0			
734: Percent Legal (%)	150		92E: Drone I	Insp. N	0			
704: Analysis Date	07/01/1976		Inspector	Persanyi,An	drea			
63: Analysis Method	7 - Allowable Stress (AS) rating reby rating factor (RF) method using loading.			•				

Inspector:Andrea PersanyiStructure Number:1814907Inspection Date:06/14/2022Facility Carried:USR 422

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.	18560	sq. ft.	15776	1856	928	0		
	CS2- Transverse cracks, some leaching. CS3- Spalls. 5 sf spall with 360 degree rebar exposure in bay 4 over SB lane 2. A few delams, a few mottled areas with stalactites.								
510 - Wearing Surfaces									
	CS2- A few cracks, concrete patches. CS3- Various potholes/shallow spalls throughout and delaminated area in lane 2 near rear expansion joint. Some wide cracks. CS4- Asphalt patches.								
107 - Steel Open Girder/Beam	3 - Mod.	2304	ft.	2036	23	245	0		
515 - Steel Protective Coating	CS2- Isolated rust. CS3- Areas of section loss near beam ends. 26598 sq. ft. 26330 265 3 0								
313 - Steel 1 Totective Coating	CS2- A few		sq. ft.			_			
205 - Reinforced Concrete Column	CS2- A few areas of chalking on outside of fascia beams. CS3- A few spots of rust								
205 - Reinforced Concrete Column		21	each	18	3	0	0		
	Note: P1 & P3 columns fiber wrapped. CS2- P2C1- 4 SF delam P2C2- 2 SF delam P2C7- 2 SF delam								
215 - Reinforced Concrete Abutment	3 - Mod.	190	ft.	163	18	9	0		
	CS2- Cracks. A few rust stains. Some concrete deterioration to abutment seats. CS3- Small spalls in bay 2 at both abutments.								
234 - Reinforced Concrete Pier Cap	3 - Mod.	284	ft.	279	2	3	0		
	CS2- Cracks. CS3- Minor spalls and delams.								
305 - Assembly Joint without Seal		145	ft.	80	60	5	0		
	CS2- Dirt and debris in joints. CS3 -A few gouges to armor. Spalls and wide cracks to headers.								
311 - Movable Bearing	3 - Mod.	36	each	18	18	0	0		
	CS2- Areas of surface rust. Section loss. Neoprene pad under forward bearing #5 starting to slide out.								
313 - Fixed Bearing	3 - Mod.	9	each	9	0	0	0		

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Element Inspection

321 - Reinforced Concrete Approach Slab	3 - Mod.	3550	sq. ft.	2275	950	195	130	
321 - Nellilorced Coliciete Approach Slab			3q. it.	2213	930	190	130	
	CS2- Cracks.							
	CS3- Some cracks as wide as 1/8".							
	COO COMO GIAGRO AO WIAO AO 170 .							
	CS4- Asphalt patches and broken up concrete areas.							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	512	ft.	114	384	10	4	
	CS2- Horizontal cracks. Scaling.							
	CS3- Minor delams. Rust stained cracks.							
	CS4- Collision damage, 4' of top 6" of railing missing from left side							
	near west end.							
815 - Drainage	e 3 - Mod. 13 each 0 4 0 9							
	Note: Two scuppers at forward intentionally plugged.							
	Find couppers at the many progged							
	CS2- Partially plugged scuppers. Dirt & debris in low speed berm.							
	CS4- Fully plugged scupper.							
830 - Abutment Backwall	3 - Mod.	190	ft.	170	10	10	0	
	CS 2 - Cracks. Construction joints open as wide as 1" in bays 2, 5 & 7							
	at both abutments filled with Great Stuff.							
	CS 3 - Construction joint repair in bay 2 at rear failed and fill beginning							
	to leak through onto abutment. Spall at construction joint in rear bays 2 (thru to exit armor) . A few other spalls. Small void (3" x 12") at top							
	of forward bay 3.							
	or forward bay o.							

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ODOT District: District 12 Major Maint: 01 - State Highway Agency

FIPS Code: 72928 - SOLON (CUY county)

Routine Maint: 01 - State Highway Agency

Feature Inters:

Facility Carried: USR 422

CR-18 (HARPER RD) Location: DISTRICT 12 Traffic On: 1 - Highway Traffic Under: 1 - Highway, with or w/out

pedestrian 3.1 MI E I-27

Resp A:

Date Built:

Rehab Date:

01 - State Highway Agency Insp Resp B:

07/01/1975

Inspector

Inspection Date 06/14/2022 Persanyi, Andrea

Reviewer Seif, Youssef Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

SOT-SB lane #1 Bay 7

NB lane #1 Bay 5

NB lane #2- Bays 4 and 6

Approach

Approach Wearing Surface (EA)

Cracks. Asphalt break up with small asphalt and epoxy patches along both slabs.

Approach Embankment (EA)

Erosion at rear-right as deep as 16".

Approach Guardrail (EA)

Collision damage with missing spacers to forward-left guardrail. Minor collision damage at forward right.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Diaphragm/X-Frames (EA)

Areas of section loss with some rusted thru holes & rust severed endframes. A few damaged xframes over nb traffic.

Fatigue (LF)

Welded moment plates at piers.

Substructure

Slope Protection (EA)

Cracks. Uneven settlement with areas of undermining at forward. Gap at rear abutment as wide as 3.5". Gap at forward abutment as wide as 14". Tufa deposit below weep hole at rear-left.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical