Inspector:	Jewell,Todd		Structure Number: 0700541	
Inspection Date:	03/17/2025		Facility Carried: SR 7	
<u>Ohio Bridge Ins</u>	pection S	ummary Report	<u>BEL-00007-1975 (07</u>	<u>00541)</u>
B.L.04: District Distric	t 1108560		5A: Inventory Route 1 00007	
B.CL.02: Major Maint (01 - State High	way Agency /	7: Facility On SR 7	
225 Routine Main A/B	01 - State High	way Agency /	6: Feature Ints US40SR767I70SUB-CREEK&RR	
221 Inspection A/B	01 - State High	way Agency /	9: Location .9 M E OF BRIDGEPORT	
	Conditio	n	Lat, Lon 40.069439 ,-80.740569	
B.C.01: Deck	6		Structure Type	
58.01: Wearing Surface	4		43: Bridge Type 4 - Steel continuous	
B.C.08: Joint	4		02 - Stringer/Multi-beam or Girc	der
B.C.02: Superstructure	6		N- Not Applicable	
59.01: Paint & PCS	7		45: Spans Main / Approach 21 / 0	
B.C.03: Substructure	5		107: Deck Type 1 - Concrete Cast-in-Pla	ce
B.C.09: Channel	5		408: Composite Deck N - Non-composite Cons	struction
B.C.11: Scour	6		414A Joint Type 1 8 - Elastomeric Strip Sea	al
B.C.10: Channel Prot.	5		414B: Joint Type 2 N - None	parato
B.C.05: Bridge Railing	6		non-modified layer of co added to structural deck	ncrete
B.C.06: Transitions	8		3 - MicroSilica	
B.C.07: Bearings	4		422: WS Date 11/23/1998	
D.C.O.A. Culturate			423: WS Thick (in) 1.8	
B.C.04: Cuiverts	N F		482: Protective Coating 5 - Paint System OZEU	
	5		403. FCS Date 10/01/1999	
	Appraisa	al	455: Bearing Type 2 N - None	
B.AP.03: Scour Vul.	D - Scour a or may bec is scour crit	appraisal completed. Bric come, unstable for scour. tical.	Bridge 528: Foundn: Abut Fwd 8 - Steel H Piles (HP 12	x 53)
	Geometr	ic	533: Foundn: Abut Rear A - Cast-in-Place Reinfo	rced
48: Max Span Length (ft) 49: Structure Length (ft)		115.0 1632.5	536: Foundn: Pier 1 Concrete Piles (12" dian B - Cast-in-Place Reinfo Concrete Piles (14" dian	neter) vrced neter)
52: Deck Width, Out-To-C	Out (ft)	70.7	539: Foundn: Pier 2 1 - Steel H Piles (Other s	size)
424: Deck Area (sf)		115417.75		
32: Appr Roadway Width	(ft)	58.0	27: Vear Built/ 106 Rebab 1968 / 0000	
51: Road Width Curb-Cu	rh (ft)	58.0	124: Service On 1 - Highway	
50A: Curb/SW Width: Left	: (ft)	0	42B: Service Under 8 - Highway - waterway railroad	у -
50A: Curb/SW Width: Rig	ht (ft)	0	28A: Lanes on 04	
34: Skew (deg)		0	28B: Lanes Under 04	
33: Bridge Median		1 - Open median	19: Bypass Length 0	
54B: Min Vert Underclear	ance (ft)	14.42	29: ADT 24467	
336A: Min Vert Clrnce IR	Cardinal (ft)	15.5	109: % Trucks (%) 11	
336B: Min V Clr IR Non-C	ardinal (ft)	0	Inspections	
578: Culvert Length (ft)		0	Months	
	Load Post	ing	90: Routine Insp. 12	
41: Op/Post/Closed	A - Open		92A: FCM Insp. N 0	
70: Posting 5 - Equal to	o or above lega	I loads	92D. Dive insp. IN U	
70.01: Date			920. Opeolai IIISp. IN U 92D: LIBIT Insp. N. o	
70.02: Sign Type			92E. Drone Insp. N 0	
734: Percent Legal (%)	150			
704: Analysis Date	07/01/2002	tor (IE) roting ronanted b	Inspector Jewell,Todd	
os. Analysis Method	rating factor loading.	(RF) method using MS1	27 8	

Inspector:	Jewell,Todd	Structure Number:	0700541
Inspection Date:	03/17/2025	Facility Carried:	SR 7

Inspector:	Jewell,Todd	Structure Number:	0700541
Inspection Date:	03/17/2025	Facility Carried:	SR 7

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	115261	sq. ft.	113653	1525	59	24
	Historical Comm span, over 40 E Hanson and Jay downspouts on General Commo	nents: 05/23 B at 13th sp y Bardall wir right side w ents (CS1 c	3/2017 pan, an th buck rith exp	spalls removed over NB 7 et truck. Spa osed and rust n): Transvers	ved over SR on ramp at alled areas o sting rebar. se overhang	7 NB off ran 20th span by ver creek ne cracks with	np at 2nd / Tom ar isolated
	light efflorescen noted below for Hairline vertical railings.	ce spaced a CS2 condit cracks alor	at 5' to ion. Fe ng deck	10' in all spa w full depth edges at 3'	ins; tighter s patches and to 5' spacing	pacing in so honeycomb g extending o	me spans areas. down from
	General: Shallo scattered throug (600 SF).	w spalling (ghout deck.	1" to 2" Estima	deep) along ted 0.5% of) flanges at v deck area a	various locat s CS2 for thi	ions s condition
	Span 1: 4 SF spall in Bay 4 at Rear Abutment (4 SF). Hairline transverse cracks with efflorescence within 10' of Rear Abutment (150 SF). Hairline cracks with efflorescence and dark areas at midspan in Bays 1-4 and 6-8 (250 SF). Span 2: Hairline transverse cracks spaced at 3' to 5'. Map cracking in Bays 2 and 3 (100 SF). Dark area with rust staining in Bay 7 (10 SF). Span 4: Hairline map cracking in Bays 7 to 9 (75 SF). Large deck patch in Bay 8 (25 SF).						se cracks s with 3ays 2 and n in Bay 8
	Span 8: Two small delaminations in Bay 4, 10 SF total (10 SF). Span 13: Spalls at median joint (5 SF). Span 14: Delamination/scaling at Beam 8 (12 SF). Span 15: Cracks with chlorides in west fascia (16 SF). Span 17: 6 SF deck patches at center above intermediate joint (6 SF). At Beams and 10 spalled/cracked with chlorides (12 SF). Span 19: Transverse cracks with chlorides in Bays 8-9 at Pier 19 (45 SF). Span 20: Transverse cracks with chlorides in Bays 7-9; cracks are wet/damp (21 SF).						At Beams 1 F). ′damp (210
	 CS3 - Span 6: 2 SF spall with exposed reinforcement, right fascia at intermediate jo SF). Spall is located over SR 7 northbound exit ramp. Span 8: Large spall in Bay 9 (10 SF). Span 9: West overhang spall with exposed reinforcing (4 SF). span 10: CS3- 6 SF EXPOSED REBAR IN BAY # 5. span 10: CS3- 12 SF EXPOSED BAY # 9. Span 12: Spalls with exposed reinforcement at left and right fascia under intermediate joint (20 SF). Span 17: Spall at center above intermediate joint (2 SF). Span 18: Spall along center joint (1 SF). 						liate joint (2 er
	CS4 - Span 2: 24 SF spall with second row of rebar exposed bay # 5 near p-2-e rear u to 2" deep in right half along center joint with exposed rebar; portion of loose concrete removed by District personnel on 5/23/2024.						2-e rear up loose
510-Wearing Surfaces		94685	sq. ft.	46151	47343	1107	84

Inspector: Inspection Date:	Jewell,Todd 03/17/2025	Structure Number:0700541Facility Carried:SR 7					541	
		Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
		CS2- Transverse and 3' throughout. L throughout. 50% expansion joints transverse crac	l longitudina arge areas 6 of deck ar s. The span ks and map	Il crack of rand rea CS2 over th cracki	ing, varies fr om cracking 2. Transvers ne water (Spang.	om hairline t and minor c e cracking is an 10) has n	to 1/16", spa delamination s common wi nore frequen	ced at 1' to s thin 10' of t
		CS3 - Estimated 100 S 80-90% of defic broken up conc both the left and Pothole at right	SF of spalle iencies are rete and as d right sides rear corner	d overl in the I phalt pa of the near d	ay (less thar NB (right) ha atches which wearing surf eck joint (4 \$	n 1" deep) th If (100SF). S n are unsoun face (Left - 7 SF).	at need to be Spalled areas Id and poppi 6 SF, Right	e patched; s with ng out in 537 SF).
		CS3- (75SF) M/ CS3- (315SF) M	AP CR. ANI /IAP CR. AN	D AREA	AS BREAKIN EAS BREAK	NG UP IN SE ING UP IN N	3 LANES. IB LANES.	
		CS4- (32SF) BF CS4- (8SF) BR(CS4- (12SF) BF CS4- (32SF) BF	ROKEN UP OKEN UP (ROKEN UP ROKEN UP	CONC CONCR CONC CONC	RETE WITH ETE WITH S RETE WITH RETE WITH	SOME SEC SOME SECT SOME SEC SOME SEC	CTION MISS FION MISSIF CTION MISS CTION MISS	ING SB TL. NG SB PL. ING SB TL. ING NB PL.
107-Steel Open Gird	er/Beam	3 - Mod.	16320	ft.	15900	400	20	0
		Beams/Girders Minor collision s splice from rear (right outside be CS2 - Moderate assemblies. Iso CS3 - Minor pai abutments near	(LF) scrapes to b in Beam 9 eam) over L surface co lated surface inted over s hinges (40	eams of bottom JS 40. rrosion ce corro ection I LF).	over ramp to flange. Scra within 1' of a sion along b oss, typical o	SR 7 NB. O apes to botto abutments a beam top flar up to 1/16" d	ne bolt miss m flange on nd adjacent nges (400 LF leep, worst a	ing at 2nd Beam 10 to hinge ⁻ total).
515-Steel Protective Co	ating		200000	sq. ft.	198800	1000	200	0
		Protective Coating System (LF) CS2 - Minor scrapes in paint on Beam 10 (right outside beam) bottom flange ov US 40 and bottom flanges where roadway crosses below the bridge to SR 7 NE onramp. Light surface corrosion at isolated locations throughout. Estimate 0.5% total area (1000 SF).					flange over SR 7 NB ate 0.5% of e joints (200	
210-Reinforced Con	croto Pior Wall	SF).	697	ft	691	Δ	2	0
		All piers are sea Pier 10: East wa normal flow). Th	aled. all exposed here is a 3.5	to wate	er at low flow scour hole o	rs (All other p n east end c	piers well ou of Pier 10.	tside of
		CS2 - Pier 5W: Minor collision damage, left side has 9" x 9" scraped area (1 L Pier 6W: Shallow rebar cover with rust staining on forward face (2 LF). Pier 12E: Rear face has1' diameter delamination with rust stains (1 SF)					_F).).	
		CS3 - Pier 4E: Horizor end (1 LF). Pier 16E: Left e	ntal spall wi nd spall wit	th expo h expos	esed reinforc	ement near	top of right v	vall at left
215-Reinforced Cone Abutment	crete	3 - Mod.	142	ft.	0	118	23	1

Inspector:	Jewell,Todd	Structure Number:	0700541
Inspection Date:	03/17/2025	Facility Carried:	SR 7

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
	EnvironmentQuantityUnitsState 1State 2State 3State 3Joint settling between abutment wall and wingwall:General: Abutments settling, areas of porous backfill are visible. At outside erof abutments there are narrow horizontal and diagonal cracks with breaking oAt the forward abutment there are 3 1'x1' spalls below beam 1. There arehorizontal cracks adjacent to the wingwalls. There is a horizontal crack at beaOn the east side there is a 7'x4' spall/delamination with chlorides and mapcracking, On the west end there are horizontal cracks at the bottom of theabutment/wingwall.Historical Comments:2012: Left rear diagonal crack, medium width with seepage. Forward has vertcracks and a spall at left and right with rebar exposed. Joints between abutmeand wingwalls widens the higher it goes, with new measurements marked onin 2012:Left rear 7/8' top out in '12.Right forward 1.1/2" top out in '12.Right forward 1.1/2" top out in '12.2014 inspection: location of measurements could not be located.Left rear							
	due to insufficient concrete cover. Wingwalls: Forward Abutment: Horizontal cracking at groundline and up to 3' above groundline. Right side 7'x 4' spall/delamination with chlorides, map cracking. Rear Abutment : Left wingwall has horizontal cracking near bottom (27 LF) and also a diagonal crack with rust stains near beam seat (3 LF). Right wingwall has 3 horizontal cracks (25 LF) with 1.5' x 1' spall 4' above the groundline and 3' x 2' delamination near the beam seat.							
	REAR CS3- (2LF) HORZ. CRACKS AT CURTAIN WALL AT BOTH LT/RT AT GROUND LEVEL. POROUS BACKFILL ON RT SIDE PILED UP NEXT TO ABUT/REATAINING AREA. FWD CS3- (1LF) HORZ. CRACKS AT CURATIN WALL LT SIDE FWD. CS3- (1LF) AT RT SIDE SPALL 4+ DEEP CURTAIN WALL AT TOP							
234-Reinforced Concrete Pier Cap	3 - Mod.	1400	ft.	0	1346	54	0	

Inspector:	Jewell,Todd	Structure Number:	0700541
Inspection Date:	03/17/2025	Facility Carried:	SR 7

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
	NOTE: PIER CA EXTERNAL PO	APS # 8,11, OST TENSIC	16 LT / DNING.	RT HAS PIE	R CAP STR	ENGTHENI	NG BY
	CS2 - Much hairline vertical cracking in tops (2016 bucket truck inspection). Prior to 2021, several of these hairline cracks were measured, are marked next to the cracks in the field and noted below individually for each pier. Pier 1 W: Crack at west overhang (2 LF) Pier 2 East,(a): Rear center crack .030" pier 2 East,(a): Forward center crack .030" Pier 2 West: Rear left forward crack .005" Pier 3 East: Rear at right side .016" and .010" Pier 3 East: Forward .010" & .013" at right forward. PIER 3 EAST 1 LF CR/DELAM. RT END. Pier 5 West: Rear .020" & .009" Pier 6 East: Rear .020" & .009" Pier 7 East: Forward .016" & .025" Pier 7 West: Forward .020" at left & right & .016" at left. with honeycombing Pier 18 West: Rear 1' vertical spall with exposed reinforcement (1 LF). Hairline vertical cracking spaced at less than 1' at Pier 3 and Piers 13-20. Spaced at 1' to 3' at other piers.						
	 at 1' to 3' at other piers. CS3 - Pier 1 West: 1 SF delamination, 1 SF spall with exposed reinforcement on forward face and on east overhang (2 LF). Pier 1 East: 1 SF spall with exposed reinforcement right of center on rear face (1 LF). Pier 2 West: 1' long spall with exposed reinforcement in east overhang (1 LF). Pier 3 West: 1 SF delamination and spall with exposed reinforcement (1 LF). Pier 4 East: 1 SF shallow spall left rear along bottom (1 LF). Forward Face: 4 LF horizontal spall with rebar exposed (4 LF). Left edge 3 SF spall (3 LF). 6' x 0.5' x 3' inches deep with 1 main vertical reinforcing bar exposed (8 LF). Spall with exposed reinforcement 6" on rear face (6 LF). Pier 4 West: 2' x 0.5' horizontal spall and 2' x 0.5' vertical spall on the rear face (3 LF). Horizontal spall with exposed reinforcement on forward face (1 LF). Pier 5 West: On east overhang 1' vertical spall with exposed reinforcement (1 LF). Pier 6 West: .009" and spall/delamination at left end south face 1 LF with exposed reinforcement (2 LF) Pier 6 East: Spall with vertical exposed reinforcement (2 LF) Pier 7 West: 2' horizontal spall with exposed reinforcement (2 LF) Pier 8 EAST 4' by 9" by 3" deep spall/delamination with exposed reinforcement (4 LF). Deficiencies noted on previous inspection reports have been patched. Pier 10 East: 2 SF spall rear face left bottom corner (2 LF). West: Spall at east end (1 LF). Pier 13 WEST Spall with exposed reinforcement (3 LF). Pier 13 WEST Spall with exposed reinforcement (3 LF). Pier 19: Spalls at ends (5 LF). 						
300-Strip Seal Expansion Joint	3 - Mod.	424	ft.	0	0	179	245
	 CS3 - Strip seal torn at abutments. Armor heavily rusted. Evidence of minor leakage below at abutments. Heavy leakage at intermediate joints resulting in heavy rust at diaphragms below. Intermediate joints 3 and 4: torn gland. Intermediate joint 2: extrusion broken. Intermediate joint 1: full of debris. NOTE: REAR RT. APP SLAB AND JOINT IS 1.75 HIGHER THAN DECK. FWD LT APP SLAB IS 1.5 HIGHER THAN DECK. CS4- (70LF) SEAL TORN AT BOTH LT/RT AT REAR ABUT. CS4- (70LF) SEAL TORN AT BOTH LT/RT AT 3RD JOINT. CS4- (70LF) SEAL TORN AT BOTH LT/RT AT LT 4TH JOINT. CS4- (70LF) SEAL TORN AT BOTH LT/RT AT LT 4TH JOINT. 						
311-Movable Bearing	3 - Mod.	185	each	148	0	27	10

Inspector: Inspection Date:	Jewell,Todd 03/17/2025	Structure Number:0700541Facility Carried:SR 7						
			_		-		-	
		Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
		Bearing Devices	s (EA). Old	section	loss on rocl	kers & plates	, painted ov	er.
		CS3 - Beam 1 b rocker bearings have moderate CS3- (5EA) HA CS4 - Isolated b	bearing (left tilted forwa rust (5 EA). VE EXCES	fascia) ard with IVE TIL	at Pier 11 h heavy rust (T ON PIER ng as intende	as heavy rus 6 EA). Rear # 5 LT. ed and are fu	st (1 EA). Fo abutment be illy tilted: Be	rward earings am 3, 4, 7,
242 Fixed Deering		8, and 9 bearing	gs at Rear,	Beam 3	3, 4, 6, and 8	3,9 bearings a	at Forward (10 EA).
313-Fixed Bearing		3 - Mod.	40	eacn	40	0	0	0
Approach Slab	crete	3 - Mod.	2900	sq. ft.	2486	410	4	0
		REAR CS2- (300SF) M FWD CS2- (60SF) LC CS2- (50SF) LC CS3 - Partial as	IAP CR/TR DNG. CR. L DNG. AND ⁻ phalt patch	ANS. C T FWD TRANS ed poth	CR. AT RT R . CR. RT FV hole at left re	EAR. VD. ar near deck	i joint (4SF).	
331-Reinforced Con Railing	crete Bridge	3 - Mod.	4896	ft.	3852	1002	42	0
		CS2 - Map crac median, and rig median rail (100 CS3 - Isolated la LF).	with IR 70 king in 5' to ht rails. Est 02 LF). arge spalls,	o verhe o 10' seg imate 6 worst i	ad. gments in nu 29 LF along in right rail a	Imerous loca left and righ nd along nor	tions along trails and 3 thbound me	, closest left, 73 LF along dian (42
815-Drainage		3 - Mod.	33	each	0	21	0	12
		Downspouts at CS2 - Dirt is typ previous inspec CS4 - 7 scuppe northbound side	Pier 7 have ical along r tions. rs clogged a e (12 EA).	ailings. along s	ations at bot Perforations outhbound s	h left and rigl in drainage ide, 5 scupp	ht T-joints. system as r ers plugged	noted on along
820-Steel Seated-Hir	nge Assembly	3 - Mod.	40	each	24	16	0	0
		 Very light rust at most hinge locations along 3rd and 4th intermediate joints (C CS2 - At 1st intermediate joint from rear, hinges on left side have excessive tilting. 1st intermediate joint from rear has bottom bolts missing at Beam 7 (both), Beam (left), and Beam 9 (right). Perforation at 1st intermediate joint crossframe at Be 10 pin and hanger (4 EA). At 2nd intermediate joint from rear, the left side hinges tilting with heavy rust a beams (10 EA). At 3rd and 4th intermediate joints, there is moderate surface rust along the Be 1 hinge locations (2 EA). 						oints (CS1). Beam 8 ne at Beam y rust at all the Beam
830-Abutment Back	wall	3 - Mod.	142	ft.	0	142	0	0
		CS2 - Longitudi Rear: 3 LF spall and 8. Rust stai southwest corne Forward: Horizo between Beams Heavy rust stair beams at abutm	nal cracking I at southea ning along er. ontal cracks 3 and 5. 2 ning and ha nents (3 LF	g on top ist corn majority betwee ' by 1' s irline di each co	o and chippir er. Full heigl y of length. F en Beams 6 spall at Bean agonal crack orner).	ng/spalling er ht vertical cra Full height ve through10. T n 10. 1' by 1' ks with efflore	ntire length (ack between rtical crack a wo vertical spall at che escence at f	(142 LF). Beams 7 at cracks ekwall. ascia

```
Affected Area : Create Report Section.
Form Id : 152
Section Name : Inspector Comments - All
Section Type : Designer
Detailed Message : The definition of this report is not valid or
supported by this version of Reporting Services. The report definition
may have been created with a later version of Reporting Services, or
contain content that is not well-formed or not valid based on
Reporting Services schemas. Details: ' ', hexadecimal value 0x02, is
an invalid character. Line 1867, position 7345.
```