Inspector:	Cooper,Kenneth		Structure Number		9811	
Inspection Date:	04/24/2023		Facility Carried:	I.R. 2	2//	
<u>Ohio Bridge Insp</u>	ection Sum	mary Report		<u>SUM-</u>	00277-03	69 <u>(770981</u>
2: DistrictDistr 19036 - CO ict 04	VENTRY TWP (SI	JM county)	5A: Inventory Ro	oute 1	00277	
	1 - State Highway	Agency /	7: Facility On	I.R. 277		
	1 - State Highway		6: Feature Ints	OVER SU	M-IR 77-9.42	
221 Inspection A/B 0	1 - State Highway	Agency /	9: Location		277 AND IR	77
220: Inv. Location DISTR	RICT 04		Lat, Lon	41.025186		-81.502358
		Str	ucture Typ	e		
58: Deck	5 - Fair Condit	ion	43: Bridge Ty	ype 4 - St	eel continuou:	6
58.01 Wearing Surface	4 - Poor (advar	-		02 - S	Stringer/Multi-k	beam or Girder
58.02 Joint	5- Fair (obvious	leaking, 1" offset)		N- No	t Applicable	
59: Superstructure	5 - Fair Condit	ion	45: Spans M	ain / Approa	ach 6	/ 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Ty	уре	1 - Concrete	e Cast-in-Place
60: Substructure	6 - Satisfactor	y Condition	408: Compos	site Deck	U - Unknow	n
61: Channel	Ν		414A Joint T		8 - Elastome	eric Strip Seal
61.01 Scour	N - Not Applic	able	414B: Joint T	Гуре 2	N - None	
62: Culverts	N - Not Applic	able	108A: Weari	ng Surface	6 - Bitumino	us
67.01 GA	5				N- Not Appli	cable
	Appraisal		422: WS Date	е	07/15/2012	
Sufficiency Rating		SD/FO 0 - ND	423: WS Thi	ck (in)	3.0	
36: Rail, Tr, Gd, Term Std	1 1	1 1	482: Protecti	ve Coating	5 - Paint Sy	stem OZEU
72: Approach Alignment		sent desirable criteria	483: PCS Da	ate	01/01/1995	
113: Scour Critical	N - Not over wa		453: Bearing	Type 1	2 - Rockers	& Bolsters
71: Waterway Adequacy	N - Not Applica	•	455: Bearing	Туре 2	N - None	
				Piles (HP 10 x 42)		
48: Max Span Length (ft)	Geometric	15.0	533: Foundn 536: Foundn		7 - Steel H F U - Unknow	Piles (HP 10 x 42)
49: Structure Length (ft)		61.0	539: Foundri			uch as most Culver
52: Deck Width, Out-To-O		06.3				
424: Deck Area (sf)		9634.3		Age	and Servi	ce
32: Appr Roadway Width (0.0	27: Year Buil	lt/ 106 Reha	ab 1968	/ 0000
51: Road Width, Curb-Curl	,	02.0	42A: Service	On	1 - Highwa	v
50A: Curb/SW Width: Left	. ,		42B: Service			y, with or w/out
50A: Curb/SW Width: Righ	it (ft) C		28A: Lanes o	on	04	
34: Skew (deg)	C)	28B: Lanes l	Jnder	06	
33: Bridge Median		- Closed median (no	19: Bypass L	ength	1	
		arrier)	29: ADT		61861	
54B: Min Vert Undercleara	. ,	5.08	109: % Trucł	ks (%)	6	
336A: Min Vert Clrnce IR C		9				
336B: Min V Clr IR Non-Ca				Ins	pections	
578: Culvert Length (ft)	(1			Months	04/24/2022
	Load Posting		90: Routine I 92A: FCM In	-	12 0	04/24/2023
41: Op/Post/Closed	A - Open		92B: Dive Ins	-	0	
70: Posting 5 - Equal to	or above legal loa	as	92C: Special	•	0	
70.01: Date			92D: UBIT In	-	0	
70.02: Sign Type			92E: Drone li	•	0	
734: Percent Legal (%)	110			•	-	
704: Analysis Date	02/09/2021	datanaa Easta D. K		Cooper,Ken	neth	
63: Analysis Method		sistance Factor Rating port by rating factor (R				

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	59653	sq. ft.	23860	29827	5966	0
	CS2: The concrete de the slopes the h spalls over traff areas in them. scheduled in the Span 1 - Transe Span 2 - Transe Span 3 - Transe Span 4 - Transe Span 5 - Transe Span 6 - Transe Span 6 - Transe	naunch has ic. Some o These area e future. verse crack verse crack verse crack verse crack verse crack	some s f these i as need s, spalls s, delan s, spalls s s, delan	palled areas removal areas to be monito a along top fla nination's, sp nination's, sp	There are p as appear to l red with dela ange. alls. alls.	previously rer have new del mination rem	noved laminated noval
	CS3: A few of the spa rebar. There is Span 1 - Satura Span 3 - Spalls Span 4 - Small Span 5 - Spalls Span 6 - Satura Pictures - 2020	approxima ation near R with rebar amount of with rebar ation in bays	tely 10% tr abutm exposed saturatic exposed s 8, 10 8	6 saturation of ent. d. on bays 2 & 3 d.	of the deck w		
510-Wearing Surfaces		57222	sq. ft.	34269	22888	65	0
	CS2: Numerous full le Asphalt wearing CS3: There are 2 fail failure that atter there is a failure ft.	g surface. S ures in the mpts have I	Some of EB ramp been ma	the cracks h b lane. At the ade to repair,	ave been se e rear expans 45 sq. ft. At	aled. sion joint the the fwd. exp	re is a ansion joint
107-Steel Open Girder/Beam	3 - Mod.	7854	ft.	2983	4713	158	0
	CS2: Rust has develo sections of the l developing on c CS3: Rear right fascia beam and cross	beams whe cross frame a beam the m there is a	re the to s. re are ru a hole in	op layer of pa ust holes in th the web ove	aint is peeling ne web, behing r the bearing	g off. Rust al nd the bearin g. Forward le	so g. Forward
515-Steel Protective Coating		119516	sq. ft.	61064	56556	1896	0
U	CS2: Rust has develous sections of the lon the cross fra CS3: There are areas spots of heavy	beams whe mes and th s of heavy r	ere the to le bearir rust on th	op layer of pangs. The bea	aint is peeling ams are also	g off. Rust ha dirty over the	s developed e roadway.
205-Reinforced Concrete Column	3 - Mod.	50	each	42	8	0	0
	CS2: P1C2 thru C6 fr P2C9 has delar P5C9 & 10 have	mination's r	ear the	top of the co	lumn.	1	1

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
215-Reinforced Concrete Abutment	3 - Mod.	212	ft.	206	6	0	0
	CS2: The abutments Fwd. = 3 ft. Rear = 3 ft.	have visible	e vertica	I cracks.			
234-Reinforced Concrete Pier Cap	3 - Mod.	530	ft.	530	0	0	0
301-Pourable Joint Seal	3 - Mod.	213	ft.	99	114	0	0
	2020 - A new jo CS2: WB: - Fwd. full width - Rear full width EB: - Fwd. patched - Rear failing in	crack, 48 f crack, 48 f over ramp l	t. t. ane, 12		spection.		
311-Movable Bearing	3 - Mod.	84	each	0	84	0	0
	CS2: All the bearings abutment are ra	are starting	g to or a	-	_		
313-Fixed Bearing	3 - Mod.	14	each	0	14	0	0
	CS2: The fixed bearing	nas (on cen	ter pier	onlv) are rus	tina.		
321-Reinforced Concrete Approach Slab	3 - Mod.	2000	sq. ft.	1000	1000	0	0
	Approach slabs CS2: The forward left coming on to th longitudinal and surface, some t	approach s e bridge. Be I transverse	slab in tl oth the f . The c	ne driving lar wd. and rear racks have d	approach sla	abs have cra	cks,
331-Reinforced Concrete Bridge Railing	3 - Mod.	1122	ft.	965	157	0	0
	CS2: The concrete bi cracks and som patched areas. left = 62 ft. median = 55 ft. right = 40 ft.	e vertical c	racks.	The sealer is	peeling off s	ome of the p	reviously
815-Drainage	3 - Mod.	50	each	15	30	5	0
	CS2: All the median s CS3: All but one of le					ire partially p	lugged.
						1	

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Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
CS2: There is a spall there is one beat Vertical cracks in Fwd. = 12 ft. Rear = 1 ft.	am that is al	lmost to				
CS3: Fwd. bay 13, the	ere is a 3 ft	. spalled	d area that is	saturated.		

Inspector:	Cooper,	Kenneth		Stru	cture Nu	mber:	7709811		
Inspection D	oate: 04/24/2	2023		Faci	lity Carrie	ed:	I.R. 277		
ODOT District: District 0)4	S	UM-00277	-0369	_(7709	811)		Date Built:	07/01/1968
Major Maint: 01 - Stat	e Highway Agency	Facility Carried:	I.R. 277		Traffic On:	1 - Highway		Rehab Da	te:
Routine Maint: 01 - Stat	e Highway Agency	Feature Inters:	OVER SUM-IR 77-9.	42	Traffic Under	: 1 - Highway, wi pedestrian	th or w/out	Insp. Resp A:	01 - State Highway Agency
FIPS Code: 19036 -	COVENTRY TWP (SUM co	ounty)	Location: DISTRIC	T 04	JCT OF	IR 277 AND IR 7	77	Insp Resp B:	
	Inspector Co	oper,Kenneth	Inspection Date	04/24/2023		Reviewer Chane	ey,Nicholas	Resp D.	
		Increator	Commont		ok and	Annroa	ah		

Inspector Comments - Deck and Approach

<u>Deck</u>

Floor/Slab (SF)

NUMEROUS TRANSVERSE CRACKS WITH EFFL., 10% SATURATION. SOME AREAS IN HAUNCH AREA SPALLED. STALACTITES. THIN HANGING SPALLS OVER SLOPES. PREVIOUSLY REMOVED SPALLS OVER TRAFFIC NOW APPEAR TO BE GETTING. LARGER. SPALL REMOVAL SHOULD BE SCHEDULED FOR THIS STRUCTURE IN THE FUTURE, STARTING WITH NB LANES. PICTURES - 2016, 2019

Bridge Wearing Surface (SF)

NUMEROUS CRACKS HAVE DEVELOPED IN THE ASPHALT CONCRETE WEARING SURFACE.

Bridge Median (LF)

SMALL SECTION HAS HORIZONTAL CRACK.

Bridge Railing (LF)

COUPLE AREAS HAVE HORIZONTAL CRACKS. SOME OF THE SEALER PEELING OFF.

Deck Drainage (EA)

ALL MEDIAN SCUPPERS ARE PARTIALLY CLOGGED. SOME OF THE OUTSIDE SCUPPERS ARE ALSO PARTIALLY CLOGGED.

Expansion Joint (LF)

RUTTING WITH SOME MATERIAL BEING SHOVED OUT. BAD REAR RIGHT, STEEL IS EXPOSED. FORWARD LEFT RAMP LANE IS RUTTING WITH THE STEEL EXPOSED. STEEL EXPOSED IN REAR LANES ALSO.

Approach

Approach Wearing Surface (EA)

TRANSVERSE AND LONGITUDINAL CRACKS.

Approach Slab (SF)

FORWARD LEFT DRIVING APPEARS TO HAVE SETTLED, DIP COMING ON TO THE BRIDGE. CRACKS HAVE ALSO DEVELOPED.

Signs (EA)

1 WARNING SIGN AT EACH ABUTMENT.

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Inspector Comments - General Appraisal

Superstructure

Superstructure Alignment (EA)

BRIDGE MEDIAN AND APPROACH MEDIAN DO NOT LINE UP AT REAR.

Beams/Girders (LF)

RUST HAS DEVELOPED ON THE BOTTOM FLANGES AND STIFFENERS. THERE ARE ALSO SECTIONS WHERE THE TOP LAYER OF PAINT ARE PEELING OFF.

Diaphragm/X-Frames (EA)

RUST HAS DEVELOPED ON THE CROSS FRAMES.

Bearing Devices (EA)

ROCKERS ARE RANDOMLY TILTED AT THE FORWARD ABUTMENT. ABUTMENT BEARINGS ARE ALSO STARTING TO RUST.

Protective Coating System (LF)

RUST HAS DEVELOPED ON THE BOTTOM FLANGES AND STIFFENERS. THERE ARE ALSO SECTIONS WHERE THE TOP LAYER OF PAINT ARE PEELING OFF. RUST HAS DEVELOPED ON THE CROSS FRAMES. ABUTMENT BEARINGS ARE ALSO STARTING TO RUST.

Substructure

Backwalls (LF)

SMALL SPALL FORWARD ABUTMENT NEAR THE MEDIAN. THERE IS ONE BEAM IN THIS AREA THAT IS ALMOST TOUCHING THE BACK WALL.

Slope Protection (EA)

SMALL AMOUNT OF EROSION UNDER THE MEDIAN HAS STARTED.

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

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Scour Critical

Inspector:	Kenneth Cooper	Structure Number: 7709811	
Inspection Dat	e: 04/24/2023	Facility Carried: I.R. 277	
		Bridge Inspection Report	

Pictures