Inspector: Inspection Date:	Banaszak,Ken 09/16/2022	Structure Numb Facility Carried:	ber: 181000 IR 71	3		
	Bridge Inspe	tion Report				
Ohio Bridgo I	nonaction Summ	ny Donort			0074 02	0.020 (4040002)
Onio Bridge I	nspection Summa	ary Report		<u>CUI-U</u>	0071-02	<u></u>
2: DistrictDistr 75098 ict	- STRONGSVILLE (CUY co	bunty) 5/	A: Inventory Ro	oute 1	0007	1
21: Major Maint A/B	01 - State Highway Age	ncy / 7:	Facility On	IR 71		
225 Routine Main A/I	B 01 - State Highway Age	ncy / 6:	Feature Ints	Creek		
221 Inspection A/B	01 - State Highway Age	ncy / 9:	Location	just south	of SR 82	
220: Inv. Location	DISTRICT 12		Lat, Lon	41.309228	53712772	,-81.809786507867
	Condition			St	ructure Ty	ре
58: Deck	N - Not Applicable		43: Bridge T	ype 3-S	teel	
58.01 Wearing Sur	face N - Not Applicable			19 - (Culvert (inclu	des frame culverts)
58.02 Joint	N- Not Applicable			N- N	ot Applicable	
59: Superstructure	N - Not Applicable		45: Spans M	ain / Appro	ach 1	/ 0
59.01 Paint & PCS	N - Not Applicable		107: Deck Ty	/pe	N - Not Ap	plicable
60: Substructure	N - Not Applicable		408: Compo	site Deck	N - Non-co	omposite Construction
61: Channel	5 4 Boor or Advance	ad Sacur (Spread, p	414A Joint I	ype 1	N - None	
61.01 Scour	undermining. Dee	b: Piles may be	• 414B: Joint	ype 2	N - None	
62. Culvorto	visible)	avy scaling wide	1094 · M/cori	na Surface		
oz. Guiverts	cracks	avy scaling, whice	TOOA. Weah	ny Sunace	IN - INA	
67.01 GA	4				N- Not Ap	olicable
	Appraisal		422: WS Dat	е		
Sufficiency Rating	43.0 SD/F	O 1-SD	423: WS Thi	ck (in)	0	
36: Rail, Tr, Gd, Tern	n Std 0 1	1 1	482: Protecti	ve Coating	N - None o	or Not Applicable
72: Approach Alignm	ent 8 - Equal to present	desirable criteria	483: PCS Da		N. Nono	
113: Scour Critical	6 - Not yet evaluate	d for scour	453: Bearing	Type 1	N - None	
71: Waterway Adequ	acy 7 - Slight Chance o	Overtopping Bridge	528: Founda	⊤iype ∠ ∴Abut Fwd	N - None (Such as most Culverts)
	Geometric		533: Foundn	: Abut Rea	r N - None (such as most Culverts)
48: Max Span Length	n (ft) 8.0		536: Foundn	: Pier 1	N - None (Such as most Culverts)
49: Structure Length	(ft) 11.7		539: Foundn	: Pier 2	N - None (Such as most Culverts)
52: Deck Width, Out-	To-Out (ft) 0.0			۸a	a and Sary	vice
424: Deck Area (sf)	2340					
32: Appr Roadway W	(idth (ft) 200.0		27. Year Bui		ab 1963 1 Liabu	/ 0000
51: Road Width, Curk	o-Curb (ft) 0.0		42A. Service	Under	T - ⊓igriv 5 - Wato	vay
50A: Curb/SW Width:	Left (ft) 0		28A: Lanes (n	06	Iway
34: Skow (dog)			28B: Lanes I	Jnder	00	
33: Bridge Median	47 0 - N	median	19: Bypass L	ength	9	
54B: Min Vert Under	clearance (ft) 0		29: ADT	-	65086	
336A: Min Vert Clrnc	e IR Cardinal (ft) 99		109: % Trucl	<s (%)<="" td=""><td>3</td><td></td></s>	3	
336B: Min V Clr IR N	on-Cardinal (ft) 99			Inc	nections	
578: Culvert Length (ft) 564			1113	Montho	
	Load Posting		90: Routine	nsp.	12	09/16/2022
41: Op/Post/Closed	A - Open		92A: FCM In	sp. N	0	
70: Posting 5 - Ea	ual to or above legal loads		92B: Dive In:	sp. N	0	
70.01: Date			92C: Special	Insp. N	0	
70.02: Sign Type			92D: UBIT Ir	nsp. N	0	
734: Percent Legal (%) 150		92E: Drone I	nsp. N	0	
704: Analysis Date			Inspector	Banaszak,ł	Ken	

Inspector:	Banaszak,Ken	Structure Number:	1810003
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63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240-Steel Culvert	3 - Mod.	564	ft.	0	314	150	100
	 CS 2 - Light rusting section loss to CMP and hardware throughout. Areas of water infiltration and efflorescence throughout. A few areas of deformation throughout, but particularly near inlet and outlet. CS 3 - Areas of heavy rusting section loss. Missing nut at 9:00, 80' from inlet. CS 4 - CMP at outlet has rusted through and failed and is undermined 20'. North side of CMP is shoved in at outlet. Rusted through holes to invert between 5:00 and 7:00 mainly near inlet and outlet. Through holes near inlet are as wide as 6" in the first 30' of CMP. Several rusted through holes between 8:00 and 11:00 near outlet. Rusting layered section loss at invert throughout. Approximately 80 bolt holes cracked in the 9:00 seam from 78' to 128' from outlet and 10 bolt holes cracked in the 9:00 seam approximately 140' from inlet. 3" tear at 2:00 near mid-point. 						
835-Culvert End Treatment	3 - Mod.	2	each	0	0	1	1
	CS 3 - Approximately 3 sf of spalls and deterioration to North inlet headwall. 1/2" faulted through crack to South inlet headwall. Top half has shifted 3 3/4" to the West. CS 4 - North side of outlet headwall has collapsed.						
845-Roadway Over Structure	3 - Mod.	2	each	2	0	0	0
	CS 1 - A few mi	inor cracks.					

Inspecto	or:	Banaszak,Ke	n	Struc	ture Numbe	r: 1	810003		
Inspecti	on Date:	09/16/2022		Facili	ty Carried:	IF	R 71		
			Bridge Inspe	ection Report					
ODOT District:	District 12	1011 4 202011	C	UY-00071	-02.030	_(1810	003)	Date Built:	01/01/1963
Routine Maint:	01 - State Highw	vay Agency	Feature Inters:	Creek	י ד	raffic Under:	5 - Waterway	Insp. 01 -	- State Highway Agency
FIPS Code:	75098 - STRON Ir	GSVILLE (CUY of an	county) anaszak,Ken	Location: DISTRIC	CT 12 09/16/2022	just sout F	h of SR 82 Reviewer Seif,Youssef	Resp A: Insp Resp B:	
			Inspector	Commen	ts - Dec	k and	Approach		
					<u>Deck</u>				

Approach

Approach Wearing Surface (EA)

A few cracks.

Approach Embankment (EA)

Areas of minor erosion at inlet. Erosion ruts & large slips to outlet embankment that extend 1/2 way up the slope to the highway.

Guardrail (EA)

Impact damage to SB guardrail above inlet. Other minor dings and dents.

Inspector: Banaszak,Ken 09/16/2022 Inspection Date:

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Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Culvert Shape (LF)

A few

areas of deformation throughout but particularly near inlet & outlet. North side of CMP is shoved in at outlet.

Culvert Seams (EA)

Missing nut at 9:00, 80' from inlet.

Culvert Scour (EA)

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Scour hole 2.5' deep at outlet , and undermining of the pipe extending 20' from outlet. Piping through corrosion holes and embankment erosion due to collapsed north outlet headwall are main cause of scour.

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Channel Alignment (LF)

90° bend approx 60' west of inlet. S-curve at outlet (channel bank is eroding).

Channel Protection (LF)

Rip-rap at outlet has washed away.

Scour Critical

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Pictures