						Duido	o Culv	out Inon	a atian					
Pridge File N	lumbor	770.40 4 Bridge Outrent				Bridg	e Cuiv		ert Inspection		CULE			
	Bridge File Number 77346 -1 Bridge Culvert /ear Built 1971							Form Type Lot No.		CULE 4				
Bridge or Town Name VERMILION						Inspector Name		Jason Saly						
Located Over TRAIL-ANIMAL, OVER SP							Inspector Class		<u> </u>					
Located On 16:28 R1 33.390;16:28 L1 33.387							Assistant Name		BR CLS A					
Water Body Cl./Year				,,		Assistant Class								
							Inspection Date		18-Jul-2012					
Navigabil. Cl./Year Legal Land Location SW SEC 30 TWP 50 RGE 6 W4N				LM			Data Entry By		Marcia Chavez					
				FIVI			Data Entry Date		09-Aug-2012					
			ta Transportation (AIT)					Reviewer Name			John O'Brien			
Contract Main. Area CMA15									Review Date		28-Jul-2012			
Clear Roadw		-	deg. (RHF	:)					Dept. Reviewer Name					
AADT/Year	iaji Citoti		2011 (A)	<i>'</i>				Dept. Review Date		13-Aug-2012				
Road Classif	fication		12.4-130						-Up By		10710g 2012			
Detour Leng		1						-						
Bridge Culv		nation									'			
Number of C			1											
Pipe #	Barrel		Span	F	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1727	2	2108	RPP		43.6		152X51	3.0	PIPE ARCH		
1	D/S	- 2400			2400		MP		49.4		125X26	2.8	ROUND	
Special Feat	tures													
Special Feat	tures Com	ment												
								,						
Deguined Ve	wt Classes	Deet	in a. (m)			PC	sting i	nformat	ion					
Required Vert. Clearance Posting (m) Posted Vertical Clearance (Y/N) No														
							(\//\ \)		on a CD		No Duides (m)	In Advance	()//NI)	
Remarks					III Adv	ance	(1 / IN)	Lane SB O		On Bridge (m) In Advance (Y/N)				
Remarks	NOUTE	equireu.				1 14	ilitios (l	Located	l ot)					
Utility Attach	ments					Οι	liities (i	Localed	at)					
Telephone	North	r/w						Gas						
Power			row, 5 line	crosse	es OH			Municipal						
Others	2 1111	20 1101111	1011, 0 11110	0.000	<i>7</i> 0 01 II			Problem (Y/N) No						
Remarks								1 10000	(1,11)					
					A	pproa	ch Roa	d / Emb	ankment					
						Last	Now	Explai	Explanation of Condition					
Horizontal A	lignment					7	7		Crosses diagonally under Hwy16 NW to SE at local road int			oad intersection		
Vertical Align	nment					8	7	(RR70	(RR70).					
Roadway Wi	idth (m)		26.000											
Embankmen	nt					7	7	2:1 ov	2:1 over pipe.					
Sideslope (:1) 6.0														
	(Height of Cover(m) : 2.6)													
Guardrail (Y/	Guardrail (Y/N) No													
Approach Road / Embankment General Rating			7	7										
					Unstre	am End								
Culvert Component			Last	Now			Condi	tion						
Direction	· · · · · · · · · · · · · · · · · · ·			N		(NW)	Explanation of Condition (NW)							
	End Treatment (Concrete, Steel, NONE					,,								
Headwall	,					Х	X							
								1						

77346 -1 Bridge Culvert

			Upstre	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Collar		Х	X							
Wingwalls		Х	Х							
(Shape:)			1							
Cutoff Wall		X	X							
Bevel End		Х	Х	Squared end.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection			7	Well vegetated.						
(Type : NATURAL)										
(Avg. Rock Size(mm):)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Upstream End General Rating		7	7							
		Brid	dae Cu	llvert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa									
Barrel Last Accessible Date	18-Jul-2012									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		8	7	Unable to measure due to dirt.						
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		8	7	Span at R2=1699=28mm=1.6%						
Measured Span (mm)	1699			Span at R6=1748=21mm Span at R10=1729=2mm						
Measured At Ring No.	2									
Deflection (mm) 28				1.6% inwards.						
Percent Deflection	2									
Floor		N	N	Dirt covered.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		8	7	Concrete filled @ extension end to old pipe - good condition.						
Separation (mm)	30									
Longitudinal Seams		Х	6							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									

77346 -1 Bridge Culvert

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1727	, Rise (mm): 2108, Type: RPP)
Coating		8	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	6	
		Bric	lae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S. Span			Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	18-Jul-2012	\ <u>.</u>	<u>, , .</u>	(min). 2-roo, Type: mir)
	10 001 2012			
Special Features			1	
Special Feature				
(Type:)			1	
Special Feature				
(Type:)		ı		
Roof		8	7	Unable to measure due to dirt.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	2			
Sidewall		8	7	Span at S end=2378=22mm
Measured Span (mm)	2340			Span at midpipe=2340=60mm=2.5% Span at N end=2356=44mm
Measured At Ring No.				·
Deflection (mm)	60			2.5%
Percent Deflection	3			
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Concrete filled @ extension end to old pipe - good condition.
Separation (mm)	30			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Longitudinal Stagger (1/N)	II .			

		Brio	ige Cul	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span			Rise (mm): 2400, Type: MP)
Coating		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy	I	Х	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		8	7	
		D	ownstr	eam End
Culvert Component			Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		s	tructur	re Usage
		Last		Explanation of Condition
Grade Separation				
Road Alignment		8	8	Dist several
Roadway Surface		8	8	Dirt covered.
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		Х	Х	
Туре				

Structure Usage									
	L		Now	Explanation of Condition					
Lighting		X	X						
Barrel Leakage (Y/N) No									
Drainage		8	8						
Structure In Use (Y/N) Yes									
Grade Separation General Rating			8						

		Maintenance Rec	ommendations						
Inspector Recommendations	Year	Inspector Comments		ent Comme		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 88.9/66	.7 Sufficiency Rating (Last/No. (%)	ow) 89.3/78.3	E	st. Repl. Yr	2044	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Departme Comment						
Maintenance Reviewed By			Date			E	stimated Tota	1 0	
Proposed Long-Term Strategy	2005.01.18 Ex for guardrail.	sting livestock underpass is in good cor	dition & should be o	k until 204	0. Proposed ove				ırrants
On 3-Year Program (Y/N)	Υ								
Proposed Action	2007.12.29 Ch	eck for safety in respect to lack of guard	rails. Brownlee & As	sociates					
Previous Inspector's Name	Owen Salava	1	revious Assistant's Name						
Next Inspection Date	18-Apr-2014	ı	revious Inspection Date 17-Dec-2010						
Inspection Cycle (Default) (months)	21								
Comment									