					Brida	e Culve	ert Insp	ection						
Bridge File Number 02489 -1 Bridge Culve			rt	Bridge Curve			ert Inspection Form Type		CUL1					
Year Built 1959			7 1 Bridge Guivert				Lot No.		4					
Bridge or Town	n Name		VILLE			Inspector Name		Owen Salava						
Located Over				O VERMILION RIVER, 6.5.16,			Inspector Class		BR CLS A					
		WATERCRS-ST					Assistant Name							
Located On		881:06 0	C1 16.621				Assistant Class							
Water Body Cl	./Year						Inspection Date		08-Aug-2011					
Navigabil. Cl./\	/ear						Data Entry By		Marcia Chavez					
Legal Land Loc	cation	SW SEC	W SEC 18 TWP 50 RGE 8 W4M					Data Entry Date 19-Sep-2						
Longitude, Lati	tude	-111:10:	30, 53:18:38				Reviewer Name John O'Brien							
Road Authority		Alberta 7	<b>Fransportation</b>	(AIT)			Review Date			15-Aug-2011				
		CMA15	A15					Dept. Reviewer Name Andrew Smikles						
		9.8 / 0 de	2 / 0 dog					Dept. Review Date		26-Sep-2011				
			560 / 2010 (A)					Follow-Up By		20 000 2011				
		RCU-21	-210-110											
Detour Length		5												
Bridge Culver		ation												
Number of Cul	verts	1		T				T		I	1			
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Type	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN			2120		SP		61.6		152X51	3.5	ROUND		
Special Feature	-			12.20		, C.		01.0		102/101	10.0			
Special Feature		ment												
Special Featur														
					Uti	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone Along W ditch.						Gas								
Power								Municipal						
Others							Problem (Y/N) No							
Remarks														
				A			d / Embankment							
Harizantal Alia	nmant				Last		Explanation of Condition							
Horizontal Alignment				8	8	Bottom of sag crest to S, limited sight distance.								
Vertical Alignm					0	6	T intersection @ top of crest to W.							
Roadway Widt	h (m)		10.000											
Embankment					4	4	Cattle	arazina ca	uleina	erosion @ Fas	et side			
Sideslope (:1)			3.0				Cattle grazing causing erosion @ East side.							
(Height of Co	· ·	: 10.3)	3.0				1							
Guardrail (Y/N)			Yes				312m	alona SRI	and 3	884m along NB	 L.			
Guararan (1714)	<u>'</u>						012111							
Approach Roa	ad / Eml	bankmen	t General Rat	ing	6	6								
						Unetre	am End							
Culvert Comp	Culvert Component						tream End  Explanation of Condition							
Direction			Last W	Now	Explanation of condition									
End Treatment	(Concre	ete. Steel	STEFI				1							
Others, None)	(50,101)	, 0.001	,											
Headwall					X	X								
Coller					V	V								
Collar					X	X								
Wingwalls			Х	Х										
(Shape: )														
Cutoff Wall					Х	X								

02489 -1 Bridge Culvert

			Unctre	am End
Culvert Company			Now	am End
Culvert Component		Last		Explanation of Condition
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	200		_	
Scour Protection		4	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>350</b> )				
Scour/Erosion		4	5	Undermining of bevel.
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
		Bri	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	1):	, Rise (mm): 2120, Type: SP)
Barrel Last Accessible Date	08-Aug-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		'		
Roof		6	6	Unable to measure due to silt-covered floor.
Measured Rise (mm)				Original to micasure and to our devoted moor.
Measured At Ring No.				
Sag (mm)				Est 4% sag
Percent Sag				
			T =	
Sidewall	0000	5	5	Sidewall (South) soil corrosion all along South wall - water dripping
Measured Span (mm)	2030			from upper seam.
Measured At Ring No.	10			Inwards.
Deflection (mm)	90			
Percent Deflection	4		_	
Floor		N	N	Covered in 0.2m of silt.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	
Separation (mm)	0			
Longitudinal Seams		5	5	Seams leaking throughout culvert
Total No. of Cracked Rings	0			No cracks in visible seams.
Total No. of Rings with Two Cracked Seams				Approx 1/2 of the seams are properly lapped.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
	. 00	4	1	Pust color staining at lower holts
Coating  Corresion By Soil (Y/N)	Yes	4	4	Rust color staining at lower boltssoil corrosion @ sidewall.
Corrosion By Soil (Y/N)	<del> </del>			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2120, Type: SP)						
Fish Passage Adequacy		7	7	there are fish						
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	Yes									
Barrel General Rating		5	5							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	X							
Wingwalls		Х	X							
(Shape: )										
Cutoff Wall		Х	X							
Bevel End		5	5							
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		4	4							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)										
Scour/Erosion		4	4	Erosion @ D/S end due to cattle grazing; armour OK.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		6	6							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N) No										
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

		Mainta	nance Recommen	dations					
Inancetor Pagammandations	Department Com	monto	Target Year	Est. Cost	Cat #				
Inspector Recommendations	Year	Inspector Comments		Department Com	ments		rarget rear	ESI. COSI	Cal #
SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS									+
INSTALL CONCRETE COLLAR/CUTO	)FF								+
REPAIR SEAMS	) I I								+
OTHER ACTION									_
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 55.6/55	Sufficiency Ration (%)	ng (Last/Now)	54.8/55.7	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Е	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jason Rusu		Previous	Assistant's Name					
Next Inspection Date	08-Nov-2014		Previous	Inspection Date	06-Jul-2007				
Inspection Cycle (Default) (months)	39				'				
Comment									