						_							
						Bridge Culvert Inspection							
Bridge File Nun	nber	77385 -1 Bridge Culvert						Form Type		CUL1			
Year Built 1971					Lot No.			4					
Bridge or Town Name CZAR						Inspector Name		Jason Saly					
Located Over TRAIL-ANIMAL, OVER SP						Inspector Class		BR CLS A					
Located On 41:14 C1 45.051						Assistant Name							
Water Body Cl.								Assistant Class					
Navigabil. Cl./Y						Inspection Date				26-Nov-2012			
Legal Land Loc	ation	NW SEC	C 22 TWP	TWP 39 RGE 6 W4M				Data Entry By		Marcia Chavez			
Longitude, Latit	ude	-110:47:	:16, 52:22:	24				Data Entry Date		15-Jan-2013			
Road Authority Alberta Tr			Transporta	ation	(AIT)			Reviewer Name		John O'Brien			
Contract Main.	Area	CMA22						Review Date		14-Dec-2012			
Clear Roadway	/Skew	11.4 /						Dept. Reviewer Name		Andrew Smikles			
AADT/Year		850 / 20	11 (A)					Dept. Review Date		17-Jan-2013			
Road Classifica	ation	RAU-21	1.8-110					Follow-Up By					
Detour Length	(km)	5											
Bridge Culvert	Inform	ation											
Number of Culv	erts/		1										
Pipe #	Barrel		Span		Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	:	2082 2311			RPP		35.4	152X51	3.5	PIPE ARCH		
Special Features													
Special Feature	es Comr	ment											
De avrine d Mart	01	D#	()			Po	sting ii	nformat	on				
Required Vert.				NI-									
Posted Vertical				No		,	N//N IN		ED 6	D:1 ( )		0.700	
Posted: Lane	WB		Bridge (m)		In Adv	ance (	Y/N)	L	ane EB C	n Bridge (m)	In Advan	ce (Y/N)	
Remarks	Not re	quired.					/						
Utility Attachme	nte					Uti	lities (L	_ocated	at)				
Telephone	West	r/\n/						Gas					
Power			st fencelin					Munici	aal				
Others	3 WIIE	S OIT La	St lenceiin	Е.					m (Y/N) No				
Remarks								Floble	II (1/IN)   INO				
Remarks					٨٠	nnrood	sh Boo	d / Emb	ankmont				
Ar							Now		/ Embankment Explanation of Condition				
Llorizontal Alianment				Last 6	6	Intersection 100m North. At curve with super elevation, good sight							
Horizontal Alignment						6	6	distanc	e, crest curve v	vith no passing	SB to the Sout	1.	
Vertical Alignment  Roadway Width (m) 11.40			11.400			0	1 0						
					1	_							
Embankment					N N		Snow	covered.					
Sideslope (:1) 3.0							-						
(Height of Co	ver(m) :	2.2)											
Guardrail (Y/N)		Yes											
Approach Roa	d / Emb	oankmer	nt Genera	Rati	ng	6	6						
							Upstre	am End					
Culvert Compo	onent					Last	Now	1	ation of Condi	tion			
Direction					W								
End Treatment (Concrete, Steel, Others, None)		I, NONE											
Headwall					Х	Х							

				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250		_	
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )			_	
Scour/Erosion		N	X	
Beavers (Y/N)	No			
Upstream End General Rating		7	N	Previous GR was 7 from 17Aug2009.
		Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			·     •
Barrel Last Accessible Date	26-Nov-2012		,	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Concrete floor & dirt, therefore could not measure rise.
Measured Rise (mm)	2240	/		Concrete moor & dirt, therefore could not measure rise.
Measured At Ring No.	2240			
Sag (mm)	71			Estimated
Percent Sag	3			
Sidewall	J	7	5	Span at R3=2022=60mm=2.9%
Measured Span (mm)	2028	/	J 3	Span at R6=2041=41mm
Measured At Ring No.	3			Span at R9=2034=48mm Deflection inwards.
Deflection (mm)	54			
Percent Deflection	3			2.9%
Floor	J	N	N	Covered with dirt.
Bulge (mm)	0	IN	IN	Oovered with dirt.
Measured At Ring No.	0			
Abrasion (Y/N)	No			
	INU	7	7	
Circumferential Seams	0	/	7	
Separation (mm)	0			There are Quaissing helps along the largery
Longitudinal Seams		5	5	There are 2 missing bolts along the lower long. seam, N side.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Minor surface rust @ sidewall South side, West end (no problem).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N) No				

		Brid	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 2082	, Rise (mm): 2311, Type: RPP)
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		5	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		X	X	Squared end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	N	Snow covered.
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	X	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	N	Previous GR was 7 from 17Aug2009.
				re Usage
		Last	Now	Explanation of Condition
Grade Separation		1		
Road Alignment		8	8	Silt, sand, manure covering concrete.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Туре	None			
Lighting		Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage							
		Last	Now	Explanation of Condition			
Drainage		7	7				
Structure In Use (Y/N) Yes							
Grade Separation General Rating			7				

		Maintenar	nce Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department	Comments	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) 55.6/5	Sufficiency Rating (%)	(Last/Now) 72.5/68.6	Est. Repl. Yr	2034 Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	al 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	N						
Proposed Action	2007.05.19 Ch	eck site again in two years to de	termine continued usage.				
Previous Inspector's Name	Jason Saly		Previous Assistant's Na	ıme			
Next Inspection Date	26-Aug-2014		Previous Inspection Da	te 08-Mar-2011			
Inspection Cycle (Default) (months)	21		<u> </u>				
Comment							