					Bridg	e Culve	ert Insp	ection						
Bridge File Nur	nber	75421 -1	Bridge Culver	rt			Form T	уре		CUL1				
Year Built		1961					Lot No.		3					
Bridge or Town	Name	LACOMB			Inspector Name		Jason Saly							
Located Over		WHELP B	ERCRS-ST		Inspector Class		BR CLS A							
Located On		2:26 L1 1			Assistant Name									
Water Body Cl./Year					Assista	ant Class								
Navigabil. Cl./Year							Inspection Date			20-Mar-2013				
Legal Land Loo	cation	NE SEC	15 TWP 40 R	GE 27 W	4M		Data E	ntry By		Marcia Chave	Z			
Longitude, Lati	tude	-113:48:0	3, 52:26:50				Data E	ntry Date		01-Apr-2013				
Road Authority	,	Alberta T	ransportation	(AIT)			Review	ver Name		John O'Brien				
Contract Main.	Area	CMA19					Review Date			26-Mar-2013				
Clear Roadway	//Skew	23.6 / 10	deg. (RHF)				Dept. F	Reviewer Na	me	Chris Black				
AADT/Year		30,370 / 2	2011 (A)				Dept. F	Review Date		09-Apr-2013				
Road Classifica	ation	RFD-412	.4-130				Follow	-Up By						
Detour Length	(km)	1												
Bridge Culver	t Inform	ation												
Number of Culv	verts	1												
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	314	2552		SPE		104		152X51	3.5	ELLIPSE		
Special Feature	es													
Special Feature	es Comr	ment												
	Utilities (Located at)													
Utility Attachme	ents													
Telephone	Gas													
Power	_						Municipal							
Others	Fibre	e optic cable west ditch.						Problem (Y/N) No						
Remarks	Remarks													
							d / Embankment Explanation of Condition							
	Horizontal Alignment			Last 8	Now 8	100m North of CPR O/P.								
					0 7	0 7			ς Ο/I	F.				
Vertical Alignment Roadway Width (m)			23.600			1								
			23.000		-	-								
Embankment	4		0.0		7	7								
Sideslope (· ·	a = `	3.0				-							
(Height of Co			SB West side TD. NB East side terminal next to bridge parapet.											
Guardrail (Y/N)			Yes				SB We Minor of	est side TD. creasing, stil	NB I I fun	East side termi ctional.	inal next to brid	lge parapet.		
Approach Roa	ad / Emb	oankment	General Rat	ing	7	7								
						Upstre	am End							
Culvert Comp	onent				Last		1	nation of Co	ndit	ion				
Direction					W									
End Treatment Others, None)	(Concre	ete, Steel,	STEEL											
Headwall					Х	X								
Collar					х	Х								
Wingwalls					Х	Х								
(Shape :)														
Cutoff Wall					Х	X								
							1							

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	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		6	N	Debris/snow covered.							
Heaving (mm)	150										
Invert Above/Below Stream Bed	ABOVE										
Above/Below (mm)	100										
Scour Protection		6	N								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)			1								
Scour/Erosion		6	N								
Beavers (Y/N)	Yes			Beaver dam at bevel.							
Upstream End General Rating		6	N	GR was 6 from 14Sep2011.							
		Bric	lge Cu	Ivert Barrel							
Culvert Component				Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2314	, Rise (mm): 2552, Type: SPE)							
Barrel Last Accessible Date	20-Mar-2013										
Special Features											
Special Feature				-							
(Type:)				4							
Special Feature				_							
(Туре :)											
Roof		7	7	(Rise @ R2 = 2554, 2mm. R20 = 2545, 7mm. R30 = 2543, 9mm.							
Measured Rise (mm)	Measured Rise (mm) 2535			14Sep2011) - Could not measure rise due to ice.							
Measured At Ring No.	10										
Sag (mm)	17										
Percent Sag	1			(0.7%. 14Sep2011).							
Sidewall		7	7	Span at R2=2342=28mm							
Measured Span (mm)	2365			Span at R10=2349=35mm Span at R20=2330=16mm							
Measured At Ring No.	40			Span at R30=2332=18mm							
Deflection (mm)	51			Span at R42=2354=40mm 2.2%							
Percent Deflection	2										
Floor		7	N	Ice covered.							
Bulge (mm)	0			-							
Measured At Ring No.											
Abrasion (Y/N)	No										
Circumferential Seams		8	8								
Separation (mm)	0										
Longitudinal Seams		7	7								
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams											
Min. Remaining Steel Between Cracks (mm)				Proper lap R20-43; wrong lap R1-19.							
Proper Lap (Y/N)	No										
Longitudinal Stagger (Y/N)	Yes			1							
Coating		5	5	Soil corrosion leaching through at bolts and seams, 5%. By water @							
Corrosion By Soil (Y/N)	Yes			U/S bevel, superficial corrosion.							
Corrosion By Water (Y/N)	Yes			1							
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

75421 -1 Bridge Culvert

		Brid	lge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm		
Fish Passage Adequacy		5	4	Rating due to beaver dam at inlet; fish cannot get through.
Baffle			Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
			ownet	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	1	E	1100	
End Treatment (Concrete, Steel, STEEL Others, None)				
Headwall		Х	Х	
Collar		X	X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200		-	
Scour Protection		5	N	-
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		5	N	(Scour basin d/s of outlet; outlet scour has been repaired. 14Sep2011).
Beavers (Y/N)	No			
Downstream End General Ration	ng	5	N	GR was 5 from 14Sep2011.
		s	Structu	re Usage
		1	Now	Explanation of Condition
Channel (U/S and D/S)		-	-	
Alignment		7	7	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N) Yes				Small.
Channel Bottom Degrading/Aggrading				-
Beavers (Y/N) Yes				
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			-
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

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Maintenance Recommendations												
Inspector Recommendations	۲	Year	Inspector Comments		Department Con	nments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION	2	2013	Remove beaver dam from W bevel.									
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF									_		
REPAIR SEAMS										_		
OTHER ACTION										_		
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
Structural Condition Rating (Last/No.	ow) 7	77.8/77.	8 Sufficiency Rating (Last/N (%)	low) 7	75.4/68.0	Est. Repl. Yr 2028		Maint. Reqd. (Y/N)		Yes		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Tota	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Ow		Owen Salava			Previous Assistant's Name							
Next Inspection Date	20-Dec-2	20-Dec-2014			Previous Inspection Date 14-Sep-2011							
Inspection Cycle (Default) (months) 21												
Comment												