73438 -1 Bridge Culvert

					Bridg	e Culve	ert Inspec	ction						
Bridge File Num	ber 7	73438 -1	Bridge Culve	rt			Form Ty	Form Type		CUL1				
Year Built 1959					l l		Lot No.		4					
Bridge or Town I	Name F	HIGH LE	VEL				Inspecto	r Name		Russel Vanderschaaf				
Located Over			ARY TO BOYE	R RIVER	R, 8.10.	.23.8,				BR CLS B				
			CRS-ST				Assistan	t Name						
Located On		35:14 C1	21.790				Assistant Class							
Water Body Cl./							Inspection Date 15-Nov-2011							
Navigabil. Cl./Ye							Data Ent	try By		Theresa Lacusta				
Legal Land Loca			2 TWP 107 R	GE 20 W	/5M		Data Ent	Data Entry Date 13-Dec-2011						
Longitude, Latitude -117:14:05, 58:15:14					Reviewer Name Eric Carcoux									
Road Authority Alberta Transportation (AIT) Contract Main, Area CMA01					Review [Date 12-Dec-2011								
Contract Main. Area CMA01 Clear Roadway/Skew 10.8 /						Dept. Re	eviewer l	Name	e Steve Pasquan					
AADT/Year 1,290 / 2010 (A)					Dept. Re	Dept. Review Date 10-Jan-2012								
				10 (A)			Follow-Up By							
Road Classificat		RAU-210	0-110											
Detour Length (k	, ,	50												
Bridge Culvert														
Number of Culve		1									I	1		
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре	L	_ength		Corr. Profile	Pl./Slab Thickness	Shape		
1 N	MAIN	-		3658		SP	3	39		152X51	3.0	ROUND		
Special Features	S													
Special Features	s Comm	ent												
					114:	litica /l	acatad a	4)						
Utility Attachmer	oto				Oti	iities (L	_ocated a	it)						
	T .	act of co	ntorlino				Gas							
Telephone 22m west of centerline						Municipal								
Power 65m west of centerline-4 wire Others						Problem (Y/N) No								
							Fiobleiii	(1/IN)	INO					
Remarks				A	pproac	:h Road	d / Embar	nkment						
					Last	Now	Explanation of Condition							
Horizontal Alignment			8	8	Sag curve - no passing southbound.									
Vertical Alignme	nt				7	7								
					Step shoulder in area of new asphalt,									
Trouble (III)						otherwise 4:1. Wide crack on asphalt over culvert.								
Embankment					4	4			•	x 4m long on W	est ditch - visit	ole through		
Sideslope (:	:1)		4.0				snow.							
Horizontal Alignment Vertical Alignment Roadway Width (m) 10.800 Embankment				Shoulder sagging on d/s end around culvert.										
Guardrail (Y/N)			No											
Approach Road	d / Emba	ankmen	t General Rat	ing	7	7								
						Linetro	am End							
Culvert Compo	nent						Explana	tion of (Condit	ion				
Direction	Herri				W	11011	LAPIGNA	tion or	Oonan					
End Treatment (Others, None)	Concret	e, Steel	STEEL				-							
Headwall					Х	Х								
Collar			Х	X										
Wingwalls			X	X										
vvirigwalis														

73438 -1 Bridge Culvert

			Linetre	am End				
Culvent Commonant				am End				
Cultoff Woll		Last	Now	Explanation of Condition				
Cutoff Wall		X	X					
Bevel End			5	Small dent on top of bevel.				
Heaving (mm)	400							
Invert Above/Below Stream Bed ABOVE				Covered with snow.				
Above/Below (mm)	200							
Scour Protection		5	4	Erosion N & S of culvert				
(Type:)								
(Avg. Rock Size(mm):)								
Scour/Erosion		5	4	Erosion N & S of culvert				
Beavers (Y/N)	No							
		5	4					
Upstream End General Rating		3	4					
		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm) :	, Rise (mm): 3658, Type: SP)				
Barrel Last Accessible Date	18-Feb-2010			Could not access weak ice.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)		-						
Roof		6	N	Floor covered with ice18-Feb-2010				
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)	0							
Percent Sag								
Sidewall		5	N	Superficial corrosion above ice level18-Feb-2010				
Measured Span (mm)	3713							
Measured At Ring No.	6							
Deflection (mm)	55							
Percent Deflection	2							
Floor		N	N	Covered with ice18-Feb-2010				
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)	Yes							
Circumferential Seams		6	N					
Separation (mm)	0		- 11					
Longitudinal Seams	-	4	N	Severe corrosion through bolts18-Feb-2010				
Total No. of Cracked Rings	0	7	- 14	201010 0011001011 01100 011010 1010 2010				
Total No. of Rings with Two								
Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No			1N stagger.				
Longitudinal Stagger (Y/N) Yes				5				
Coating		4	N	Akaling stains though bolts.				
Corrosion By Soil (Y/N)	Yes			Superficial corrosion above ice level, Severe corrosion through bolts18-Feb-2010				
Corrosion By Water (Y/N)	Yes			21.1.2 31.33.31.1.3.2.3.1.33.1.33.1.33.2.31.3				
Camber POS/ZERO/NEG	ZERO							

73438 -1 Bridge Culvert

		Bric	lge Cu	Ivert Barrel
Culvert Component L (Pipe # : 1, Primary Span, Location Code: MAIN, Span			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 3658, Type: SP)
Ponding (Y/N)	No			(Ponding 1.9m. 2005/03/19)
Fish Passage Adequacy		5	5	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried over 18-Feb-2010
		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	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	Х	
Bevel End		6	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		6	4	Erosion wider than channel.
(Type:)				
(Avg. Rock Size(mm):)		1		
Scour/Erosion		6	4	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	4	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	6	Bends d/s.
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)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	6	

		Mai	intenance Recomme	ndations					
Inspector Recommendations	Year	Inspector Comments	interiance Recomme	Department Con	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	Teal	mapector comments		Department Con	iiiieiits		Taiget Teal	L31. 0031	Oat #
PLACE ADDITIONAL RIP RAP									1
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) 44.4/44	.4 Sufficiency F	Rating (Last/Now)	54.8/57.9	Est. Repl. Yr	2015	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection Monitor sidewall de Monitor corrosion t Monitor crack on a	hrough bolts.	rt.		Department Comments					
Maintenance Reviewed By				Date		[Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Brian Pientsch		Previou	ıs Assistant's Name	Lisbeth Med	dina			
Next Inspection Date	15-Aug-2013		Previou	s Inspection Date	18-Feb-201	0			
Inspection Cycle (Default) (months)	21								
Comment									