Bridge Culvert Inspect								ection						
Bridge File Number 71434		1434 -1	434 -1 Bridge Culvert					Form Type		CUL1				
Year Built 1979		·				Lot No.		2						
Bridge or Town Name NORTH S		STAR				Inspector Name		Russel Vanderschaaf						
Located Over BUCHAN		NAN CREEK, 8.10.44, WATER			RCRS-	Inspector Class		BR CLS B						
Located On 35:06 C1			1 32 509				Assistant Name							
Water Body CL/Year							Assistant Class							
Navigabil CL/Xear							Inspection Date		16-Nov-2011					
Legal Land Location NW SEC.			20 TWP 90 RGE 23 W5M				Data Entry By		Theresa Lacusta					
Longitude Latitude -117:38:4		40, 56:49:36				Data E	ntry Date		13-Dec-2011					
Road Authority Albert		lberta 1	Fransportation			Reviewer Name		Eric Carcoux						
Contract Main Area CMA04						Review Date			12-Dec-2011					
Clear Roadway/Skew 10.2 /							Dept. Reviewer Name		Steve Pasquan					
AADT/Year 1.950		,950 / 2	2010 (A)		Dept. Review Date		10-Jan-2012							
Road Classificat	tion R	RAU-21	0-110				- Follow-Up By							
Detour Length (km) 5													
Bridge Culvert	Informat	tion												
Number of Culve	erts		1											
Pipe #	Barrel	\$	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	4	4390	4841		SPE		39.6		152X51	3.0	ELLIPSE		
Special Feature	s													
Special Feature	s Comme	ent												
					114			~ ()						
Litility Attachmo	nte				Οt	inties (L	ocateu	at)						
Power	6 wire o	/h alon	n East ditch				Municipal							
Others							Problem (Y/N) No							
Remarks									-					
				A	pproad	ch Road	l / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment				7	7	Entrances both directions.								
Vertical Alignme	ent				8	8								
				0.200										
Roadway Width	(m)		10.200											
Embankment						3	Gully a	t SW 10m	x 5m	om x 1.5m deep @ bottom of slope.				
Sideslope (:1)		4.0											
(Height of Cov	/er(m) : 1	.5)					1							
Guardrail (Y/N)			Yes											
Approach Road	d / Emba	inkmen	t General Rat	ing	7	7								
Upstream End														
Culvert Component					Last	Now	Explan	ation of C	Condi	tion				
Direction				W										
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			X	Х										
Collar			X	Х										
Wingwalls			X	X										
(Shape :)														

Alberta Transportation

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall			X						
Bevel End			6	_					
Heaving (mm)	Heaving (mm) 250								
Invert Above/Below Stream Bed BELOW									
Above/Below (mm) 400									
Scour Protection		4	3	Gully on S side 10 x 5 x 1.5 m deepphoto					
(Type : RIP RAP)				Visible through snow.					
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		4	3	Gully on S. side.					
Beavers (Y/N)	eavers (Y/N) Yes			Dam across channel 4m u/s.					
Upstream End General Rating		4	3						
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	n): 4390	9, Rise (mm): 4841, Type: SPE)					
Barrel Last Accessible Date	10-Feb-2010			Viewed from ends, water still running					
Special Features									
Special Feature				_					
(Type :)				_					
Special Feature				_					
(Type:)									
Roof		7	N	Sag est. (16-Aug-2008)					
Measured Rise (mm)	Measured Rise (mm)			Corrosion through bolts.					
Measured At Ring No.	Measured At Ring No.								
Sag (mm)	0								
Percent Sag									
Sidewall		7	N	_					
Measured Span (mm)	4241								
Measured At Ring No.	5								
Deflection (mm)									
Percent Deflection				deflection inward 10 Ech 2010					
Floor		NI	N	Covered with ice					
Bulge (mm)	0	IN	IN						
Measured At Ping No	0			-					
Abrasion (V/N)	Vec			-					
	165		NI	D/S and of 4 and 5th pastion rists					
Separation (mm)	0	5	IN	at 2:00 5-8mm seperation in long seam. (16-Aug-2008)					
Separation (mm)	U	-	N.						
Longitudinal Seams	0	5	N	2010 Root seams in from a/s and pulling into bolts, are tipping10-Feb-					
Total No. of Cracked Rings	U			-					
Cracked Seams				-					
Min. Remaining Steel Between Cracks (mm)				1N Stagger					
Proper Lap (Y/N)	No			-					
Longitudinal Stagger (Y/N)	Yes								
Coating		4	N	Superficial rust on sidewalls.					
Corrosion By Soil (Y/N)	Yes			Pitting rust through bolts10-Feb-2010					
Corrosion By Water (Y/N)	Yes								

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Bridge Inspection & Maintenance System (Web 2005)

71434 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<mark>n (</mark> mm	ı): 4390	, Rise (mm): 4841, Type: SPE)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N) Yes										
Fish Passage Adequacy		7	5	(FISH 300mm IN LENGTH VISIBLE THRU ICE (1999-11-21) Drift blockage d/s bevel. Beaver dam u/s channel						
Baffle		N	N							
(Type :)			1							
Waterway Adequacy		8	8							
lcing (Y/N)	No		U							
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		5	N	GR was 5 on 10-Feb-2010						
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall			X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		6	6	Minor construction damage top of d/s end.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	300		1							
Scour Protection		N	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Downstream End General Ration	ng	6	6							
		S	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)		7	7							
Alignment		1	'							
Bank Stability			6							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) Yes										
Channel Bottom DEGRADING Degrading/Aggrading				Dam u/s 4m across channel.						
Beavers (Y/N)	Yes			Dam u/S 25m in centre of channel.						

Structure Usage									
	Last	Now	Explanation of Condition						
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating	5	7							

Alberta Transportation

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	r Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	S											
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION			2012	Remove	beaver dam at u/s.							
OTHER ACTION			2012	Repair se	cour South of u/s bevel.							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			55.6/55.	5.6 Sufficiency Rating (%)		st/Now)	62.6/63.0	Est. Repl. Yr	2025 Maint. Red		qd. (Y/N)	Yes
Special Comments for Next Inspection							Department Comments					
Maintenance Reviewed By							Date		E	Estimated Total	0	
Proposed Long-Te												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Brian			Brian Pientsch				Assistant's Name	Lisbeth Medi	sbeth Medina			
Next Inspection Date 16		16-Aug-2013 F				Previous	evious Inspection Date 10-Feb-2010					
Inspection Cycle (Default) (months) 21		21										
Comment												