Bridge Culvert Inspection														
Bridge File Number 07391 -1			-1 Bridge Culvert			Form Type		CUL1						
Year Built 1955							Lot No.			1				
Bridge or Town Name CARVEL			L				Inspector Name			Wade Nanninga				
Located Over	KIL	CREEK, 6.65.19, WATERCRS-ST				Inspector Class			BR CLS A					
Located On	51.040;16:12 L1 51.058				Assistant Name									
Water Body Cl./Year							Assistant Class							
Navigabil. Cl./Year								Inspection Date		07-Aug-2012				
Legal Land Loc	ation NE	SEC	C 9 TWP 53 RGE 2 W5M					Data Entry By		Theresa Lacusta				
Longitude, Latitude -114:1		4:13:4	:13:44, 53:34:13					ntry Date	9	21-Aug-2012				
Road Authority Alber		erta Transportation (AIT)					Reviewer Name		Eric Carcoux					
Contract Main. Area CMA11								/ Date		21-Aug-2012				
Clear Roadway/Skew 22.6 /								Dept. Reviewer Name		Brent Herrick				
AADT/Year 13,120		120 /	/ 2011 (A)					Dept. Review Date		30-Aug-2012				
Road Classifica	tion RA	D-412	2.4-120				Follow-Up By							
Detour Length ((km) 1													
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2440	1750		RPP		51.8		152X51		PIPE ARCH		
Special Feature	s													
Special Feature	es Commer													
Litility Attachmo	onte				υt	inties (L		at)						
	South r/w						Gas							
Peuer Zurian Narth stu							Gas	Aunicipal Hwy lighting both chouldors						
Power 7 wires North r/w.							Droblo			ignung - both sr	iouiders.			
Demorko Eilo tog U/S								11 (171 N)	INU					
Remarks	Remarks File tag U/S.													
				Last	Now	Explanation of Condition								
Horizontal Alignment			6	6	SH 770 intersection 90m to East of structure.									
Vertical Alignment					7	7	-							
Roadway Width (m)			22.600											
Embankment					7	7	3m ber	3m berms each side.						
Sideslope (:1)		3.0	_	1									
(Height of Cov	ver(m) : 1.2	2)					1							
Guardrail (Y/N)			No											
Approach Roa	d / Emban	kmen	t General Rat	ing	6	6								
					1	Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction					S									
End Treatment Others, None)	(Concrete,	Steel,	, STEEL											
Headwall			Х	Х										
Collar			Х	X										
Wingwalls			Х	X										
(Shape :)														
Cutoff Wall					Х	Х								
						1	1							

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		N	N	(Extensive rust with perforations - photo. 25/Nov/2008) Covered by						
Heaving (mm)	0			beaver dam.						
Invert Above/Below Stream Bed BELOW										
Above/Below (mm)	0									
Scour Protection		N	5							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		N	5							
Beavers (Y/N)	Yes			1.5m high dam in inlet -						
Upstream End General Rating		N	5	G.R. was "5" from 25/Nov/2008.						
		Bric	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2440	, Rise (mm): 1750, Type: RPP)						
Barrel Last Accessible Date	04-Dec-2001		,	Water too deep to enter pipe. Veed from S end						
	01 200 2001									
Special Features										
Special Feature		2	2	(Struts are tilted but still in place. At R9 able to inspect 1/3L of pipe						
(Type : VERT TIMBER STRUTS				aue to water level being too high. 04/Dec/2001) Pipe is no longer strutted.						
Special Feature										
(Type :)										
Roof		N	N	Limited view. Roof appears to still have some curvature.						
Measured Rise (mm)	1735									
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		N	N	Limited view, no issues visible.						
Measured Span (mm)										
Measured At Ring No.										
Deflection (mm)	0									
Percent Deflection										
Floor		N	N							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)				1						
Circumferential Seams		N	N							
Separation (mm)	0			-						
Longitudinal Seams	-	N	N	(Water too deep to inspect cracks. At least 5 cracked rings, water						
Total No. of Cracked Rings 5		IN	11	was too deep to inspect of the pipe, it does not appear the cracks						
Total No. of Rings with Two Cracked Seams				a nave moved in many years '91 insp. 92/11/13) (What is visible has soil/superficial rust - rust stains from bolt holes. 22/Mar/2007) (Standing water 1.0m from roof. 00/04/18)						
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N)	No									
Coating		N	N	(Heavy corrosion up to mid rise of culvert. 22 Mar 07)						
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	Yes			1200mm deep.						

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2440, Rise (mm): 1750, Type: RPP)									
Fish Passage Adequacy		6	4	Beaver dam @ inlet					
Baffle		N	N						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	Icing (Y/N) No								
Silting (Y/N)	Yes								
Drift (Y/N)	Drift (Y/N) No								
Barrel General Rating			2	Missing struts. GR carried forward					
Culvert Compensat		Last	Now	eam End					
Direction		N	INOW						
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL								
Headwall		X	X						
Collar			X						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall			Х						
Bevel End		6	6						
Heaving (mm) 0									
Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	Above/Below (mm) 600		-						
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)		1							
Scour/Erosion			6						
Beavers (Y/N)	ivers (Y/N) Yes								
Downstream End General Rating		6	6						
		6	tructu						
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		Luot	11011						
Alignment			6	Makes 90 degree bend at U/S end.					
Bank Stability			6						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom AGGRADING Degrading/Aggrading				Water is backed up from numerous dams.					
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations											
Inspector Recommendations			Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT	ACCUMULATION										
INSTALL CONCR	ETE/STEEL LINING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF		DFF									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION	OTHER ACTION		2012	Review scheduled replacement date struts should be reinstalled.	and if						
OTHER ACTION	OTHER ACTION										
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		ow)	22.2/22.	.2 Sufficiency Rating (Last/N (%)	low) 4	40.0/33.8	Est. Repl. Yr 2012		Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection (level 2 completed in July 2003. Programmed for replacement. 07/June/2005 rating advisory sent to Rizwan Hussain Aug 20 2012.					05) Low	Department Comments					
Maintenance Reviewed By			Date						stimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Kri		Kris Bo	Kris Bosters			Previous Assistant's Name					
Next Inspection Date 0		07-May	07-May-2014			evious Inspection Date 08-Oct-2010					
Inspection Cycle (Default) (months) 21		21									
Comment											