

Bridge Culvert Inspection			
Bridge File Number	79372 -1 Bridge Culvert	Form Type	CULM
Year Built	1980	Lot No.	1
Bridge or Town Name	CANMORE	Inspector Name	Garry Roberts
Located Over	SPRAY LAKE CANAL, 2.13.67.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	LOCAL ROAD	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Apr-2013
Legal Land Location	NW SEC 12 TWP 24 RGE 11 W5M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-115:24:46, 51:02:15	Data Entry Date	13-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Ash Morjaria
Contract Main. Area	CMA28	Review Date	12-Apr-2013
Clear Roadway/Skew	13 / -15 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	214 / 2013 (E)	Dept. Review Date	22-Apr-2013
Road Classification	RLU-208G-90	Follow-Up By	
Detour Length (km)	160		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1200	MP	12	68X13	2.8	ROUND
2	MAIN	-	1200	MP	12	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East ROW	Gas	
Power	East ROW and crosses north	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		4	Curves both ends. On Smyth Dorien Trail. Grade to north.
Vertical Alignment		5	
Roadway Width (m)	13.000		
Embankment		5	
Sideslope (__:1)	1.5		
(Height of Cover(m) : 3.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		4	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	E		South pipe - east end
End Treatment (Concrete, Steel, Others, None)	NONE		
Headwall		X	
Collar		X	
Wingwalls		X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			5	
Beavers (Y/N)				
Upstream End General Rating			5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date				South barrel not accessible. Ice is 550 mm from roof.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			3	Viewed from d/s. Isolated deflection of approx. 170 mm 3 m from d/s end, appears to be reverse curvature. Est.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	170			
Percent Sag	14			
Sidewall			N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			N	
Separation (mm)				
Longitudinal Seams			X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating			5	Moderate corrosion on floor and mid sidewall
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type :)				
Waterway Adequacy			5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			3	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		W		South pipe - west end
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			N	
Beavers (Y/N)	No			
Downstream End General Rating			N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		E		North pipe - east end
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End			X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			5	
Beavers (Y/N)	No			
Upstream End General Rating			5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date	08-Apr-2013			North barrel
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			4	Isolated roof deflection in R1 appears to be from construction. Remainder of barrel shape is good. 1230 mm in R3 C/L.
Measured Rise (mm)	1110			
Measured At Ring No.	1			
Sag (mm)	90			
Percent Sag	8			
Sidewall			3	Isolated sidewall deflection in R1 appears to be from construction. Remainder of barrel shape is good. 1350 mm in R3 C/L
Measured Span (mm)	1350			
Measured At Ring No.	1			
Deflection (mm)	150			
Percent Deflection	13			
Floor			6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			5	R5/R6
Separation (mm)	155			
Longitudinal Seams			X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating			5	Moderate crosion on floor and to mid sidewalls
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type :)				
Waterway Adequacy			5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			3	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		W		North pipe - west end
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			6	Some rock to 500 mm
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			6	
Beavers (Y/N)	No			
Downstream End General Rating			6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	
Bank Stability			6	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	

Maintenance 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							
INSTALL STRUTS	2013	R1 in north pipe - R6 in south pipe					
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/33.3	Sufficiency Rating (Last/Now) (%)	/33.6	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name			Previous Assistant's Name				
Next Inspection Date	08-Jan-2018		Previous Inspection Date				
Inspection Cycle (Default) (months)	57						
Comment							