

Bridge Culvert Inspection			
Bridge File Number	72173 -1 Bridge Culvert	Form Type	CUL1
Year Built	1967	Lot No.	4
Bridge or Town Name	CANMORE	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO BOW RIVER, 2.13.70, WATERCRS-ST	Inspector Class	BR CLS A
Located On	1:02 R1 2.761;1:02 L1 2.703	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	06-Feb-2012
Legal Land Location	SE SEC 7 TWP 25 RGE 10 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-115:22:40, 51:07:03	Data Entry Date	14-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Tom Carey
Contract Main. Area	CMA28	Review Date	22-Feb-2012
Clear Roadway/Skew	45.7 / -20 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	17,720 / 2010 (A)	Dept. Review Date	22-Mar-2012
Road Classification	RAD-616.6-130	Follow-Up By	
Detour Length (km)	1		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2490	1752	RPP	140	152X51	3.5	PIPE ARCH
Special Features	SHOTCRETE BEAM							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South R/W.	Gas	15 m from South end.
Power	3 W over road 100 m East and North ROW.	Municipal	
Others		Problem (Y/N)	No
Remarks	In ditch between Hwy 1 & service road-		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Road width WBL - 19.0 m. EBL 17.2. Service road 9.5 m.
Vertical Alignment	7	7	
Roadway Width (m)	45.700		
Embankment	8	7	
Sideslope (:1)	4.0		
(Height of Cover(m) : 1.3)			
Guardrail (Y/N)	Yes		@ service road only. on North side-WBL.
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction			North end.
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	CSP extension and bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2490, Rise (mm): 1752, Type: RPP)				
Barrel Last Accessible Date	06-Feb-2012			
Special Features				
Special Feature		7	7	End of shotcrete. 4th to 18th ring from D/S.
(Type : SHOTCRETE BEAM)				
Special Feature				
(Type :)				
Roof		5	5	2 holes at seam between 7th and 8th Ring from U/S (AGT installation). in roof Rise not taken due to rock on floor.
Measured Rise (mm)	1620			
Measured At Ring No.	2			
Sag (mm)	132			
Percent Sag	7			
Sidewall		7	7	
Measured Span (mm)	2490			
Measured At Ring No.	23			
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Floor bulge not seen-rock covered.
Bulge (mm)	25			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	6	2 seams short on bolts CSP extension at North.
Separation (mm)	0			
Longitudinal Seams		5	5	Lower longitudinal seams only visible at 6 D/S rings.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				Only roof plates staggered.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2490, Rise (mm): 1752, Type: RPP)				
Fish Passage Adequacy		5	5	Seasonal watercourse.
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	Rock ranging from 0.4 at U/S to 0.3 at D/S.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				South end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	Fence runs across bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		5	5	Rock placed to provide transition down to streambed.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 600)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Railway 30m from d/s end. 2-1800mm CSP under railway crossing.
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.9			No visible HWM.
Drift (Y/N)	Yes			Minor drift.
Channel Bottom Degrading/Aggrading	AGGRADING			Agg. @ U/S.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	56.0/56.0	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	06-Nov-2013		Previous Inspection Date	24-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							