

Bridge Culvert Inspection			
Bridge File Number	79012 -1 Bridge Culvert	Form Type	CUL1
Year Built	1979	Lot No.	4
Bridge or Town Name	CANMORE	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO BOW RIVER, 2.13.66, WATERCRS-ST	Inspector Class	BR CLS A
Located On	1A:02 C1 2.265	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	31-Aug-2012
Legal Land Location	SE SEC 27 TWP 24 RGE 10 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-115:18:16, 51:04:22	Data Entry Date	03-Oct-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Joel Wozney
Contract Main. Area	CMA28	Review Date	20-Sep-2012
Clear Roadway/Skew	12.5 / 42 deg. (RHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	2,950 / 2011 (A)	Dept. Review Date	11-Oct-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2615	2887	SPE	54.9	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	North ditch.	Gas		
Power	Main 3 wire line 100 m North.	Municipal		
Others	Fibre optics @ North r/w.	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve both ends. Limited sight distance.
Vertical Alignment		5	5	
Roadway Width (m)	12.500			
Embankment		6	6	3:1 @ North.
Sideslope (__:1)	2.5			
(Height of Cover(m) : 4.8)				
Guardrail (Y/N)	Yes			Guardrail on South side only.
Approach Road / Embankment General Rating		5	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		North.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	8	
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): 2615, Rise (mm): 2887, Type: SPE)				
Barrel Last Accessible Date	31-Aug-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Estimate.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	1			
Sidewall		7	7	Inward.
Measured Span (mm)	2570			
Measured At Ring No.	6			
Deflection (mm)	45			
Percent Deflection	1			
Floor		N	N	Rock covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Rings #9 - 11, 4 - 10mm gap @ West sidewall longitudinal seam.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	(Minor superficial corrosion @ U/S bevel @ floor.) Rock covered.
Corrosion By Soil (Y/N)	Yes			Alkali stains @ bolts.
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2615, Rise (mm): 2887, Type: SPE)				
Fish Passage Adequacy		5	5	Culvert dry this inspection.
Baffle		5	5	Baffles beginning to show abrasion @ U/S. Only a few seen - most silt covered
(Type : SPOILER)				
Waterway Adequacy		7	7	300mm deep @ U/S to 1000 mm @ D/S. - silt Silt & rock up to 300mm dia. Stream doesn't run every year
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South.
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	800			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)		No		
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Erosion at upstream banks, water (941205) migrates back and forth through channel.
Bank Stability		5	5	
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		5	5	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	73.8/73.8	Est. Repl. Yr	2035	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	31-May-2014		Previous Inspection Date	28-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							