

Bridge Culvert Inspection				
Bridge File Number	78998 -1 Bridge Culvert		Form Type	CUL1
Year Built	1978		Lot No.	4
Bridge or Town Name	POLLOCKVILLE		Inspector Name	Jason Saly
Located Over	TRIBUTARY TO BERRY CREEK, 3.14.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	876:06 C1 33.338		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Nov-2010
Legal Land Location	NE SEC 10 TWP 25 RGE 12 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-111:35:42, 51:07:16		Data Entry Date	07-Jan-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA21		Review Date	12-Dec-2010
Clear Roadway/Skew	8.5 / 30 deg. (RHF)		Dept. Reviewer Name	Chris Black
AADT/Year	160 / 2009 (A)		Dept. Review Date	11-Jan-2011
Road Classification	RCU-209-110		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	2361	2560	SPE	25.6	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West ditch		Gas	
Power	Crosses rd 1/2 mile S of pipe		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	8	In shallow sag.
Vertical Alignment		7	7	Oil base top.
Roadway Width (m)	10.000			Hazard markers at both ends.
Embankment		5	5	pipe is too short - (barrel is 2.5m of road over pipe 10Feb2009).
Sideslope (__:1)	1.5			
(Height of Cover(m) : 0.4)				
Guardrail (Y/N)	No			Consider Installing
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			At streamend
Above/Below (mm)	0			
Scour Protection		7	N	(Good rock protection on apron and covered with dirt. 10Feb2009).
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	Snow covered.
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): 2361, Rise (mm): 2560, Type: SPE)				
Barrel Last Accessible Date	27-Nov-2010			5% V.E. pipe 2314x2552.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Rise measured at R2=2579 - 19mm; R4=2584 - 24mm=0.9%.
Measured Rise (mm)	2584			
Measured At Ring No.	4			Upwards.
Sag (mm)	24			Based on 2560 rise, if 2552 then 1.3%.
Percent Sag	1			
Sidewall		7	7	Span measured at R2=2296 - 65mm; R4=2279 - 82mm=3.47%; R6=2306 - 55mm.
Measured Span (mm)	2279			
Measured At Ring No.	4			Inwards.
Deflection (mm)	82			Based on span of 2361, if span is 2314 then 1.5%.
Percent Deflection	3			
Floor		7	7	Partially covered by dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
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)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		5	6	
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): 2361, Rise (mm): 2560, Type: SPE)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	5	Sloped end 3.05 m long. Minor bend NW bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	N	(Good rock protection and vegetation is well established. 10Feb2009).
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	(No sign of problems. 10Feb2009). Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		7	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp bend into U/S inlet.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
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	2011	Consider installing guardrail					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	76.5/74.6	Est. Repl. Yr	2022	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Feb-2014		Previous Inspection Date	10-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							