Bridge Culvert Inspection

Bridge File Number	75597 -1 Bridge Culvert	Form Type	CUL1
Year Built	1995	Lot No.	4
Bridge or Town Name	COLINTON	Inspector Name	Todd Warshawski
Located Over	LITTLE PINE CREEK, 8.11.68.11, WATERCRS-ST	Inspector Class	BR CLS B
		Assistant Name	
Located On	827:04 C1 25.952	Assistant Class	
Water Body Cl./Year		Inspection Date	08-Mar-2010
Navigabil. Cl./Year		Data Entry By	Janie Assenheimer
Legal Land Location	SW SEC 24 TWP 64 RGE 22 W4M	Data Entry Date	22-Mar-2010
Longitude, Latitude	-113:12:24, 54:32:54	Reviewer Name	Arnold Assenheimer
Road Authority	Alberta Transportation (AIT)	Review Date	11-Mar-2010
Contract Main. Area	CMA10	Dept. Reviewer Name	Brent Herrick
Clear Roadway/Skew	9.5 / 4 deg. (RHF)	Dept. Review Date	24-Mar-2010
AADT/Year	220 / 2008 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	11		

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	31	125X26	2.8	ROUND
Special Features								
Special Features Comment		BF tag is wired to top of W. bevel.						

Utilities (Located at)

Utility Attachments			
Telephone	West ditch.	Gas	
Power	2 wires 15m East of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field approaches 50m North and 50m South. Rise to north.
Vertical Alignment		8	7	
Roadway Width (m)	9.500			
Embankment		N	7	
Sideslope (__:1)	4.0			
(Height of Cover (m) : **1.6**)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		**7**	**7**	

Upstream 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	

Upstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Bevel End		N	6	Minor damage to top of bevel.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	7	
(Type : **RIP RAP**)				
(Avg. Rock Size (mm) : **300**)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		**7**	**6**	

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 2000, Type: MP**)				
Barrel Last Accessible Date	08-Mar-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	(Rise near c/l 2021. 19/Sept/2003)
Measured Rise (mm)	2021			Not measured due to ice on floor. est. at 0% sag.
Measured At Ring No.				
Sag (mm)	21			
Percent Sag	1			Increase in rise.
Sidewall		7	7	
Measured Span (mm)	1985			c/l
Measured At Ring No.				
Deflection (mm)	15			Inward deflection.
Percent Deflection	1			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	35			
Longitudinal Seams		X	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		6	5	Lower 1/2 superficial rust.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): - , Rise (mm): 2000, Type: MP**)				
Fish Passage Adequacy		6	6	
Baffle		N	N	(Concrete block. 19/Sept/2003)
(Type :)				
Waterway Adequacy		8	8	
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		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : **RIP RAP**)				
(Avg. Rock Size (mm) : **300**)				
Scour/Erosion		N	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		6	7	
Bank Stability		N	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**6**	**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) (%)	**77.8/77.8**	**Sufficiency Rating (Last/Now) (%)**	**80.1/79.4**	Est. Repl. Yr	2035	Maint. Reqd. (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	Jason Saly	Previous Assistant's Name	
Next Inspection Date	08-Jun-2013	Previous Inspection Date	30-Nov-2006
Inspection Cycle (Default) (months)	39		
Comment			