

Bridge Culvert Inspection			
Bridge File Number	71465 -1 Bridge Culvert	Form Type	CUL1
Year Built	1958	Lot No.	4
Bridge or Town Name	PICTURE BUTT	Inspector Name	Jason Rusu
Located Over	TRIBUTARY TO LITTLE BOW RIVER, 2.12.12.4, WATERCRS-ST	Inspector Class	BR CLS B
Located On	843:06 C1 2.744	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Feb-2010
Legal Land Location	NW SEC 22 TWP 12 RGE 21 W4M	Data Entry By	Kelsey Roberts
Longitude, Latitude	-112:48:09, 50:00:52	Data Entry Date	25-Mar-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA25	Review Date	12-Mar-2010
Clear Roadway/Skew	10.5 /	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	80 / 2008 (A)	Dept. Review Date	26-Mar-2010
Road Classification	RLU-209G-90	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	1737	1920	SPE	24.4	152X51	2.8,2.8,2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West ditch	Gas	
Power	East ditch - 1 line	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm ent - 30m north
Vertical Alignment		6	6	Rises to N.
Roadway Width (m)	10.500			
Embankment		N	N	Snow Covered
Sideslope (:1)	1.5			(Steep, lots vegetation. Minor loss of fill d/s at roof.) 27-Feb-2010
(Height of Cover (m) : 2.7)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		West invert.
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	N	(End is 800 mm higher than floor at end of ring 1 (probably installed?)) 26-Feb-2007
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	150			
Scour Protection		N	N	snow covered
(Type :)				
(Avg. Rock Size (mm) :)				
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Upstream End General Rating		5	N	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1737, Rise (mm): 1920, Type: SPE)				
Barrel Last Accessible Date	27-Feb-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	Estimate- due to ice cover on floor
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	1			
Sidewall		7	6	
Measured Span (mm)	1760			
Measured At Ring No.	4			
Deflection (mm)	23			
Percent Deflection	1			
Floor		N	N	Rusting. Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	Some missing nuts. Mostly correct.
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		6	6	Corrosion on lower half of pipe
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			400 mm D/S END

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1737, Rise (mm): 1920, Type: SPE)				
Fish Passage Adequacy		X	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East invert.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	(D/S bevel installed 1 bolt hole out from being level.) 27-Feb-2007 Snow covered
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		N	N	snow covered
(Type :)				
(Avg. Rock Size (mm) :)				
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Downstream End General Rating		6	N	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	6	
Bank Stability		7	5	Bbanks sloughing @ D/S
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				unable to determine.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	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							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	70.3/68.7	Est. Repl. Yr	2020	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	27-May-2013		Previous Inspection Date	26-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							