

Bridge Culvert Inspection			
Bridge File Number	73271 -1 Bridge Culvert	Form Type	CUL1
Year Built	1954	Lot No.	1
Bridge or Town Name	DEADWOOD	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO ROUSSEAU CREEK, 8.10.44.2.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	690:02 C1 2.517	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	20-Mar-2013
Legal Land Location	SE SEC 28 TWP 89 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:36:13, 56:44:28	Data Entry Date	08-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	03-Apr-2013
Clear Roadway/Skew	9.6 /	Dept. Reviewer Name	
AADT/Year	210 / 2012 (A)	Dept. Review Date	
Road Classification	RCU-208-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	MP	33.5	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	3 wire O/H power North row.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	5	CURVES IN BOTH DIRECTIONS
Vertical Alignment		7	5	Residential access 75m East. Sag curve
Roadway Width (m)	10.000			
Embankment		3	3	Void in slope 5m back from outlet.
Sideslope (:1)	3.0			In area sloughing 0.1m above d/s crown growing over.
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	5	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		5	4	Top of u/s dented in. (Water entering pipe @ seam (photo)16-Aug-06)
Heaving (mm)	60			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	60			
Scour Protection		4	N	Material eroded to a depth of 200mm along the sides of the bevel 1m from the end.-21-Oct-2009
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	N	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date	21-Oct-2009			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	N	Ice to 300mm of roof. Could not view through pipe. at c/l.
Measured Rise (mm)	1360			
Measured At Ring No.				
Sag (mm)	140			
Percent Sag	9			
Sidewall		4	N	at c/l
Measured Span (mm)	1640			
Measured At Ring No.				
Deflection (mm)	140			
Percent Deflection	9			
Floor		4	N	Perforated on select crests.-21-Oct-2009
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	N	2nd last circumferential seam pulled apart (photo). Barrel slope increases after this seam. Infiltration and hole in slope. Void is about 0.5m3 in size.-21-Oct-2009
Separation (mm)	100			
Longitudinal Seams		6	N	Rivetted.-21-Oct-2009
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	Perforations on some crests, 5-7 o'clock.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Hanging outlet.
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Scour d.s. To 300mm of u/s, d/s end iced over.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried fwd.

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		N			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		6	N	Ice and snow covered.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	200				
Scour Protection		4	N	3m x 6m x 0.3m scour hole at outlet.-21-Oct-2009	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		4	N		
Beavers (Y/N)	No				
Downstream End General Rating		4	4	GR carried fwd.	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Deg. d.s
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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	2013	Replace					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	39.9/40.0	Est. Repl. Yr	2013	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments	Replacement program for 2013. Design being done.			
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	20-Jun-2016		Previous Inspection Date	21-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							