

Bridge Culvert Inspection								
Bridge File Number	08845 -2 Bridge Culvert				Form Type	CUL1		
Year Built	1992				Lot No.	2		
Bridge or Town Name	HOADLEY				Inspector Name	Owen Salava		
Located Over	LLOYD CREEK, 3.78.17, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	611:02 C1 10.896				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	08-Feb-2013		
Legal Land Location	SE SEC 3 TWP 45 RGE 2 W5M				Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:12:04, 52:50:37				Data Entry Date	22-Feb-2013		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien		
Contract Main. Area	CMA18				Review Date	13-Feb-2013		
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Chris Black		
AADT/Year	330 / 2011 (A)				Dept. Review Date	14-Mar-2013		
Road Classification	RCU-209-110				Follow-Up By			
Detour Length (km)	6							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	7191	5439	RPE	44.5	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	South r/w.				Gas			
Power	1 wire OH North r/w.				Municipal			
Others					Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7	Intersection 200m East. Hill to the West.			
Vertical Alignment			7	7				
Roadway Width (m)	9.000							
Embankment			8	8				
Sideslope (_ :1)	4.0							
(Height of Cover(m) : 2.5)								
Guardrail (Y/N)	No							
Approach Road / Embankment General Rating			7	7				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction			N		Estimated @ 7000mm span, 4000mm rise.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			5	5	Medium cracks.			
Collar			N	N	(Wide cracks, 12mm wide @ East. 30/Jan/2007) - Snow covered.			
Wingwalls			X	X				
(Shape :)								
Cutoff Wall			N	N	Ice			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				Can't determine, snow covered.
Above/Below (mm)				
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	5	GR carried forward from 12Feb2010.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7191, Rise (mm): 5439, Type: RPE)				
Barrel Last Accessible Date	08-Feb-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	Possible distortion @ N end. Roof is flattening. Measured from ice and found 2720 at inlet, 2490 at outlet and 2140 at c/l.
Measured Rise (mm)				
Measured At Ring No.	6			
Sag (mm)	432			7.9% based on previous sag.
Percent Sag	8			
Sidewall		4	5	Ice above 1/2 depth.
Measured Span (mm)	7100			
Measured At Ring No.	6			
Deflection (mm)	91			Inwards 1.3% based on previous dimensions.
Percent Deflection	1			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)				
Longitudinal Seams		N	6	Only top half visible, OK.
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		7	7	Walls stained.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			Ice is just above springline.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7191, Rise (mm): 5439, Type: RPE)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		N	5	Wide cracking both sides.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Ice
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				Can't determine, high water/ice.
Above/Below (mm)				
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		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Curves U/S and D/S.
Bank Stability		6	6	Slight cutbank U/S 10m on corner.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Can't determine.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	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	2013	AT to confirm rise and span in BIS, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	60.9/60.9	Est. Repl. Yr	2030	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)	Y						
Proposed Action	Inspect by January 1, 2009 and determine strategy. CB						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	08-May-2016		Previous Inspection Date	12-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							