

Bridge Culvert Inspection								
Bridge File Number	07827 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1981				Lot No.	2		
Bridge or Town Name	CLARESHOLM				Inspector Name	Garry Roberts		
Located Over	TROUT CREEK, 2.12.25.5, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	520:02 C1 18.161				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	21-May-2010		
Legal Land Location	SW SEC 9 TWP 12 RGE 29 W4M				Data Entry By	Erin Roberts		
Longitude, Latitude	-113:54:29, 49:58:51				Data Entry Date	15-Jul-2010		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey		
Contract Main. Area	CMA26				Review Date	02-Jun-2010		
Clear Roadway/Skew	10.4 /				Dept. Reviewer Name	Lorenz Bohnert		
AADT/Year	130 / 2009 (A)				Dept. Review Date	23-Jul-2010		
Road Classification	RCU-208-110				Follow-Up By			
Detour Length (km)	35							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	8185	5495	RPE	54.9	152X51	5.0	ELLIPSE
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	s side				Gas			
Power	1 wire north				Municipal			
Others					Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			6	6	curve on both ends			
Vertical Alignment			6	6	in sag curve			
Roadway Width (m)	12.800							
Embankment			8	8				
Sideslope (_ :1)	4.0							
(Height of Cover(m) : 3.8)								
Guardrail (Y/N)	No							
Approach Road / Embankment General Rating			6	6				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction					North			
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			7	8				
Collar			7	7				
Wingwalls			X	X				
(Shape :)								
Cutoff Wall			N	N				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		7	4	Beginning to scour in East side from poor channel alignment
Beavers (Y/N)	No			
Upstream End General Rating		8	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8185, Rise (mm): 5495, Type: RPE)				
Barrel Last Accessible Date	21-May-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Rings are numbered incorrectly.
Measured Rise (mm)	5350			6" PVC pipe hangs down through the roof 1.5m from the d/s end w/ some old phone lines through it. Placed at time of construction. Est.
Measured At Ring No.	6			
Sag (mm)	145			
Percent Sag	2			
Sidewall		7	8	
Measured Span (mm)	8223			
Measured At Ring No.	6			
Deflection (mm)	38			
Percent Deflection				
Floor		N	N	Rock and silt covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	8	
Separation (mm)	0			
Longitudinal Seams		7	7	25 to 30 bolts missing throughout pipe 4 bolts most missing in one seam - not causing problems 3N stagger at sidewalls and roof
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8185, Rise (mm): 5495, Type: RPE)				
Fish Passage Adequacy		9	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	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				South
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	8	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		4	7	Appears previous inspection had U/S and D/S ends mixed up
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		4	7	some erosion in teh east side of the bevel. some rip rap missing
Beavers (Y/N)	No			
Downstream End General Rating		4	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	3	Channel has shifted East and is eroding bank and East bevel. May miss pipe in next flood
Bank Stability		8	3	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2010	Approx 100m3 Cl.2 at U/S East bank and bevel					
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) (%)	81.5/71.8	Est. Repl. Yr	2043	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	21-Aug-2013		Previous Inspection Date	15-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							