

Bridge Culvert Inspection				
Bridge File Number	75751 -1 Bridge Culvert		Form Type	CUL1
Year Built	1993		Lot No.	2
Bridge or Town Name	CANYON CREEK		Inspector Name	Wade Nanninga
Located Over	CANYON CK, 8.11.80.33, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:48 C1 22.171		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Mar-2013
Legal Land Location	SE SEC 36 TWP 73 RGE 8 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:04:46, 55:22:01		Data Entry Date	16-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA06		Review Date	11-Apr-2013
Clear Roadway/Skew	13.7 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	3,030 / 2012 (A)		Dept. Review Date	23-Apr-2013
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	200			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3000	MP	44	125X26	2.8	ROUND
Special Features		BARREL DEICING PIPE						
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	Both sides of r/w.		Gas
Power	7 wires 25 m North.		Municipal
Others	Alberta supernet North r/w.		Problem (Y/N)
Remarks			No

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	East Canyon Creek access 40 m east.
Vertical Alignment		7	7	Turning lane over pipe. Crest to West. Road curves to the SE.
Roadway Width (m)	13.700			13.7m over culv. 10.5m away from turning lane and intersection.
Embankment		7	7	
Sideslope (_ :1)	4.0			
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	N	
Collar		5	N	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		6	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	GR carried fwd.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3000 , Type: MP)				
Barrel Last Accessible Date	27-Mar-2013			1.8m ice in pipe
Special Features				
Special Feature		3	3	9.0m needs to be refastened to roof - photo.
(Type : BARREL DEICING PIPE)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				Upwards. 4% est.
Sag (mm)				
Percent Sag	4			
Sidewall		7	7	
Measured Span (mm)				
Measured At Ring No.				Inwards. 4% est
Deflection (mm)				
Percent Deflection	4			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	25			
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	6	Minor superficial rust lower 1/3.-Jun, 2011
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): 3000, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	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		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	0			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried fwd.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		6	6	
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		6	8	

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	Re-fasten steam conduit.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	71.5/73.0	Est. Repl. Yr	2047	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	09-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							