

Bridge Culvert Inspection				
Bridge File Number	13069 -1 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	4
Bridge or Town Name	ANDREW		Inspector Name	Jason Saly
Located Over	EGG CREEK, 6.48, WATERCRS-ST		Inspector Class	BR CLS A
Located On	45:04 C1 50.780		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	23-Jan-2013
Legal Land Location	SW SEC 5 TWP 57 RGE 16 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:20:56, 53:53:22		Data Entry Date	25-Feb-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA14		Review Date	13-Feb-2013
Clear Roadway/Skew	9.7 /		Dept. Reviewer Name	Chris Black
AADT/Year	900 / 2011 (A)		Dept. Review Date	14-Mar-2013
Road Classification	RAU-209-110		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	5000	4035	RPB	28	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks	Hazard markers @ all 4 corners.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Roadside turnout 150m East.
Vertical Alignment		8	8	
Roadway Width (m)	9.700			
Embankment		8	N	Snow covered, but no signs of problems.
Sideslope (:1)	4.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			1 guardrail section is slightly bent, still functional.
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		8	8	No fill behind headwall, built that way.
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	(Submerged. 06Jun2011).

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		8	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5000, Rise (mm): 4035, Type: RPB)				
Barrel Last Accessible Date	23-Jan-2013			
Special Features				
Special Feature				"6" Concrete Curbs.
(Type :)				"7" Bridgerail/Galvanized Posts.
Special Feature				Double layer.
(Type :)				
Roof		N	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	8	(@ mid length, span 4949, 1% deflection. 30Nov2004).
Measured Span (mm)	4959			Span at R3=4983=17mm
Measured At Ring No.	9			Span at R9=4959=41mm=0.8%
Deflection (mm)	41			Span at R15=4971=29mm
Percent Deflection	1			
Floor		N	N	~ 1.5m deep.
Bulge (mm)	0			(03/03/25)
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			2N stagger. Roof seam.
Coating		N	6	Superficial rust @ roof bolts.
Corrosion By Soil (Y/N)	Yes			
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): 5000, Rise (mm): 4035, Type: RPB)				
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		N	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		8	N	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Submerged.
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		5	N	Ditch drainage @ D/S end & end of riprap eroding bank, both sides.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		5	N	1m deep x 3m wide x 7m long @ East. Well vegetated.
Beavers (Y/N)	No			
Downstream End General Rating		5	5	GR carried forward from 06Jun2011.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Turns 80 degree 30m South, turns 80 degree 15m North.
Bank Stability		5	N	(Erosion from ditch drainage. 06Jun2011).
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				(Stable. 03/03/25) Deep water.
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/88.9	Sufficiency Rating (Last/Now) (%)	64.8/80.0	Est. Repl. Yr	2054	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	23-Oct-2014		Previous Inspection Date	06-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							