

Bridge Culvert Inspection			
Bridge File Number	00401 -1 Bridge Culvert	Form Type	CUL1
Year Built	1978	Lot No.	2
Bridge or Town Name	CALMAR	Inspector Name	Todd Warshawski
Located Over	CONJURING CREEK, 6.107, WATERCRS-ST	Inspector Class	BR CLS B
Located On	39:10 C1 11.660	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	07-Jan-2013
Legal Land Location	NW SEC 25 TWP 49 RGE 27 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:49:38, 53:15:54	Data Entry Date	23-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11	Review Date	17-Jan-2013
Clear Roadway/Skew	13.8 / -30 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	5,550 / 2011 (A)	Dept. Review Date	23-Jan-2013
Road Classification	RAU-213.4-120	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	-	4900	SP	76.8	152X51	3.0,4.0	ROUND
Special Features								
Special Features Comment	No BF tag.							

Utilities (Located at)

Utility Attachments			
Telephone	North & south r/w.	Gas	
Power	2 wires to NW.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm & field accesses all 4 corners.
Vertical Alignment		9	9	
Roadway Width (m)	13.800			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 4.1)				
Guardrail (Y/N)	Yes			Improper lap @ NW.
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		X	X	
Collar		N	N	Shoulder beside collar. Settled 500mm at east and 330mm at West.- Jun 2009 Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Flow not viewed/rated.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried fwd.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4900, Type: SP)				
Barrel Last Accessible Date	07-Jan-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	Rise not measured due to ice.
Measured Rise (mm)				
Measured At Ring No.				Est @ 5%
Sag (mm)	275			
Percent Sag				
Sidewall		5	5	
Measured Span (mm)	5239			
Measured At Ring No.	10			
Deflection (mm)	339			
Percent Deflection	7			
Floor		N	N	Ice/water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	Upper 1/2 inspected.
Separation (mm)	0			
Longitudinal Seams		6	6	Upper 1/2 inspected.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Upper 1/2 rated.
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): 4900, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
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		5	5	(Bevel projects from fill 1000mm. 10/Aug/2007) Sides pushing inward up to 150mm. Upper 1/2 rated.
Heaving (mm)	300			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	1000			
Scour Protection		N	N	Settled 900mm along sides of bevel.-June 2009
(Type : RIP RAP)				Snow covered
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	N	
Beavers (Y/N)		No		
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp bend in stream U/S of culvert.
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				Dam 1.5 high, 15m D/S.-June 2009
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
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	Relap NW guardrail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	60.0/59.8	Est. Repl. Yr	2021	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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	07-Oct-2014		Previous Inspection Date	24-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							