

Bridge Culvert Inspection				
Bridge File Number	82042 -1 Bridge Culvert		Form Type	CUL1
Year Built	1910		Lot No.	2
Bridge or Town Name	EDMONTON		Inspector Name	Todd Warshawski
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	21:28 C1 1.314		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	07-Jan-2013
Legal Land Location	SW SEC 6 TWP 52 RGE 22 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:14:46, 53:27:31		Data Entry Date	23-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09		Review Date	17-Jan-2013
Clear Roadway/Skew	10.7 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	8,820 / 2011 (A)		Dept. Review Date	23-Jan-2013
Road Classification	RAU-211.8-110		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	-	2130	MP	30.5	75X25	2.8	ROUND
Special Features		CONC FLOOR						
Special Features Comment		BF tag on West end.						

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)			No									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks		Not required.										

Utilities (Located at)				
Utility Attachments				
Telephone	West r/w.		Gas	45 m north.
Power	2 line east r/w.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Approach 50m North & South. Intersection with Hwy 14, 800m South. Crest curve to south.
Vertical Alignment		8	8	
Roadway Width (m)	10.700			Recently repaired.
Embankment		7	7	
Sideslope (___:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		N	N	Snow covered.
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried fwd.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2130, Type: MP)				
Barrel Last Accessible Date	07-Jan-2013			
Special Features				
Special Feature (Type : CONC FLOOR)		N	N	Only 10% visible - cracked.-May, 2009 Ice/snow covered.
Special Feature (Type :)				
Roof		4	4	Damage to roof 200mm dia. 10m from D/S end - photos. 100mm dia 10m from U/S end.-loss of fill. Measured from 1 o'clock to 7 o'clock.-Feb,2011 Rise not measured due to ice.
Measured Rise (mm)	2000			
Measured At Ring No.	5			
Sag (mm)	130			
Percent Sag	6			
Sidewall		5	5	12m from E end.
Measured Span (mm)	2235			
Measured At Ring No.	4			
Deflection (mm)	108			
Percent Deflection	5			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Cut seams not welded.-photo
Separation (mm)	70			
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)				

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2130, Type: MP)					
Coating		6	6	Minor superficial rust along lower 1/4.	
Corrosion By Soil (Y/N)	No				
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG	NEG				
Ponding (Y/N)	Yes			Approx 250mm of water ponded in pipe due to negative camber and poor drainage @ ends.	
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type :)					
Waterway Adequacy		X	X	150mm.-May, 2009	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		4	4		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E			
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)	100				
Invert Above/Below Stream Bed					
Above/Below (mm)					
Scour Protection		N	N	Snow covered	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		N	N		
Beavers (Y/N)	No				
Downstream End General Rating		7	7	GR carried fwd.	
Structure Usage					
		Last	Now	Explanation of Condition	
Grade Separation					
Road Alignment		7	7		
Roadway Surface		7	7		
(Type :)					
Icing (Y/N)	No				
Traffic Safety Features		X	X		
Type					

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		4	4	Poor drainage away from end pipe due to neg camber.
Structure In Use (Y/N)	Yes			As ski-doo underpass only - no fences for cattle.
Grade Separation General Rating		4	4	

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	Patch holes in roof.					
OTHER ACTION	2013	Weld corrugation seams					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	61.8/61.8	Est. Repl. Yr	2024	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	09-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							