

Bridge Culvert Inspection				
Bridge File Number	81571 -1 Bridge Culvert		Form Type	CUL1
Year Built	1991		Lot No.	4
Bridge or Town Name	ALIX		Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	11:16 C1 28.940		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	13-Feb-2012
Legal Land Location	SE SEC 8 TWP 39 RGE 22 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:07:57, 52:19:56		Data Entry Date	08-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA20		Review Date	29-Feb-2012
Clear Roadway/Skew	12.2 / 0 deg.		Dept. Reviewer Name	Andrew Smikles
AADT/Year	2,420 / 2010 (A)		Dept. Review Date	09-Mar-2012
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	-	2200	MP	26	125X26	2.8	ROUND
Special Features								
Special Features Comment								

**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	South r/w.					Gas						
Power	3 wires 30m north r/w.					Municipal						
Others						Problem (Y/N)		No				
Remarks												

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	No passing eastbound.
Vertical Alignment		7	7	
Roadway Width (m)	12.200			Transverse crack in ACP 6m West of pipe.
Embankment		5	5	
Sideslope (___:1)	4.0			
(Height of Cover(m) : 1.3)				
Guardrail (Y/N)	Yes			Minor accident damage to SW guardrail/post, no action. Last splice @ NW & SE corners improper lap.
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	Mower damage to roof at bevel.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		X	6	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	13-Feb-2012			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Could not measure rise due to gravel along the floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	10			0.5% roof sag estimated.
Percent Sag	1			
Sidewall		7	7	Span at S end=2208=8mm Span at Midpipe=2220=20mm=0.9% Span at N end=2215=15mm
Measured Span (mm)	2220			
Measured At Ring No.				
Deflection (mm)	20			0.9%
Percent Deflection	1			
Floor		N	N	Covered by gravel.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Minor infiltration West wall of South seam.
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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	Mower damage top edge.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		X	6	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	
Roadway Surface		8	8	
(Type : <b>GRAVEL</b> )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			Minor infiltration near South end, West wall South seam.
Drainage		3	4	Low spot @ S end, (previous ponding noted - photo. 29Mar2010).
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>3</b>	<b>4</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>75.4/76.1</b>	Est. Repl. Yr	2039	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)	N						
Proposed Action	2007.05.21 Revisit site again in two years to determine continued usage. Brownlee & Associates						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	13-Nov-2013		Previous Inspection Date	29-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							