

Bridge Culvert Inspection										
Bridge File Number	74570 -1 Bridge Culvert				Form Type	CUL1				
Year Built/Lined	1956/1994				Lot No.	4				
Bridge or Town Name	STIRLING				Inspector Name	Jon Davies				
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B				
Located On	61:02 C1 7.870				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	28-Mar-2013				
Legal Land Location	SW SEC 5 TWP 7 RGE 18 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-112:24:52, 49:31:41				Data Entry Date	08-Apr-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA24				Review Date	07-Apr-2013				
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	540 / 2012 (A)				Dept. Review Date	22-Apr-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		
2	MAIN FULL LINER	-	2200	MP	29	125X26	2.8	ROUND		
Special Features	CONC FLOOR									
Special Features Comment										
Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)										
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not Required.									
Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Fibre optic cable North ditch.				Problem (Y/N)	No				
Remarks										
Approach Road / Embankment										
			Last	Now	Explanation of Condition					
Horizontal Alignment			9	9						
Vertical Alignment			8	8						
Roadway Width (m)	9.500									
Embankment			8	8	Level over pipe then 2:1 @ pipe.					
Sideslope (__:1)	2.0									
(Height of Cover(m) : 0.6)										
Guardrail (Y/N)	No									
<b>Approach Road / Embankment General Rating</b>			<b>8</b>	<b>8</b>						
Upstream End										
<b>Culvert Component</b>			Last	Now	Explanation of Condition					
Direction			N		North					
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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	Concrete pour on the entrance to the pipe
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	28-Mar-2013			
<b>Special Features</b>				
Special Feature				Concrete floor - rated N - Ice and dirt covered.
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Est.
Measured Rise (mm)	2130			
Measured At Ring No.	2			
Sag (mm)	70			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	2270			
Measured At Ring No.	2			
Deflection (mm)	70			
Percent Deflection	3			
Floor		N	N	Concrete & Dirt floor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		4	4	Foam sealed @ North. 2nd seam from South has 90mm separation and 50mm gap. South section @ this seam is shifted 50mm East. Has not moved since last inspection. Some minor soil infiltration @ this seam.
Separation (mm)	90			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Coating		7	6	Minor corrosion at exterior, interior roof and at below waterline
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	9	Handles ditch drainage.
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		South
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	Concrete around lower part of this bevel
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	Concrete floor covered with 25mm of dirt.
Roadway Surface		8	6	
(Type : CONCRETE)				
Icing (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		7	5	
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>7</b>	<b>5</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>83.3/81.9</b>	Est. Repl. Yr	2040	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	Jon Davies		Previous Assistant's Name				
Next Inspection Date	28-Dec-2014		Previous Inspection Date	15-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							