

Bridge Culvert Inspection												
Bridge File Number	73987 -1 Bridge Culvert				Form Type	CULE						
Year Built	1952				Lot No.	2						
Bridge or Town Name	ROSEMARY				Inspector Name	Jon Davies						
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B						
Located On	1:16 R1 46.548;1:16 L1 46.525				Assistant Name							
Water Body Cl./Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date	05-Feb-2012						
Legal Land Location	SW SEC 1 TWP 20 RGE 16 W4M				Data Entry By	Lauren Korte						
Longitude, Latitude	-112:05:56, 50:39:34				Data Entry Date	08-Mar-2012						
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts						
Contract Main. Area	CMA23				Review Date	12-Feb-2012						
Clear Roadway/Skew	25.9 /				Dept. Reviewer Name	Tim Davies						
AADT/Year	6,860 / 2010 (A)				Dept. Review Date	11-Mar-2012						
Road Classification	RFD-412.4-130				Follow-Up By							
Detour Length (km)	1											
Bridge Culvert Information												
Number of Culverts	1											
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN	1980	1980	BP	14.7			RECTANGLE				
1	D/S	2560	2310	RPE	65.2			ELLIPSE				
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)		Lane	SB	On Bridge (m)		In Advance (Y/N)	
Remarks	Not required											
Utilities (Located at)												
Utility Attachments												
Telephone	North r/w				Gas							
Power	S r/w 1 wire & W 1 wire crossing West.				Municipal							
Others	Fibre optic cable North ROW.				Problem (Y/N)	No						
Remarks												
Approach Road / Embankment												
			Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Jct approx 100 m west.							
Vertical Alignment			8	8								
Roadway Width (m)	25.000											
Embankment			5	5	S headwall is 0.5m from Guardrail.							
Sideslope (___:1)	4.0				0.6m height off over at South.							
(Height of Cover(m) : 1.2)												
Guardrail (Y/N)	Yes											
Approach Road / Embankment General Rating			7	7								
Upstream End												
Culvert Component			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	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)				
Barrel Last Accessible Date	05-Feb-2012			Concrete box.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Covered in dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	X	
Separation (mm)	0			
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): 1980, Rise (mm): 1980, Type: BP)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Also handles drainage.
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)				
Barrel Last Accessible Date	05-Feb-2012			SPCSP
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Est sag. Longitudinal seam at C/L.
Measured Rise (mm)	2310			
Measured At Ring No.	8			
Sag (mm)	40			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	2623			
Measured At Ring No.	6			
Deflection (mm)	63			
Percent Deflection	2			
Floor		N	N	Covered in dirt 200m.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	Few bolts tilted, up to 3 mm gap @ some joints.
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)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)				
Coating		5	5	SUPERFICIAL CORROSION @ ROOF EXT @ SOILLINE. MINOR WHITE STAINS @ ROOF SEAM.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Also handles drainage.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		6	6	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		South
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		4	4	Spalling full width.
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Roadway Surface		7	7	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		7	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	Yes			
Grade Separation 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	2012	Repair South headwall 1m2					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	66.6/66.6	Est. Repl. Yr	2030	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	05-Nov-2013		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							