

Bridge Culvert Inspection				
Bridge File Number	75978 -1 Bridge Culvert		Form Type	CUL1
Year Built	1964		Lot No.	4
Bridge or Town Name	RUMSEY		Inspector Name	Dave Lam
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	585:02 C1 20.626		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Jul-2011
Legal Land Location	SE SEC 24 TWP 33 RGE 22 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:59:24, 51:50:25		Data Entry Date	16-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA20		Review Date	28-Jul-2011
Clear Roadway/Skew	9.8 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	440 / 2010 (A)		Dept. Review Date	22-Aug-2011
Road Classification	RCU-208-110		Follow-Up By	
Detour Length (km)	13			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	1724	1901	MPE	19.5	75X25	4.0,4.0,4.0	ELLIPSE
Special Features		CONC FLOOR						
Special Features Comment		5% VE.						

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	South r/w.		Gas	40m West, crosses road.
Power	North r/w.		Municipal	
Others			Problem (Y/N)	No
Remarks		GAS KERR MCGEE 403-263-2360		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curves left. When travelling West grade increases to East.
Vertical Alignment		7	7	
Roadway Width (m)	8.100			
Embankment		7	7	
Sideslope (___:1)	2.8			
(Height of Cover(m) : <b>0.7</b> )				
Guardrail (Y/N)	Yes			
<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)	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)	0			
Invert Above/Below Stream Bed	ABOVE			(photo).
Above/Below (mm)	200			
Scour Protection (Type : ) (Avg. Rock Size(mm) : )		7	X	
Scour/Erosion		7	X	
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 # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: MPE)				
Barrel Last Accessible Date	14-Jul-2011			
<b>Special Features</b>				
Special Feature (Type : <b>CONC FLOOR</b> )		7	7	
Special Feature (Type : )				
Roof		6	6	Minor damage at outlet end (South). Also hole in roof N end (40mm x 30mm).
Measured Rise (mm)				
Measured At Ring No.				Est.
Sag (mm)	16			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	1740			Midspan.
Measured At Ring No.				
Deflection (mm)	16			<0.1%.
Percent Deflection	0			
Floor		N	7	Concrete floor. Rated as special feature. Visible portion of steel floor rated here.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	30			
Longitudinal Seams		X	7	Rivetted.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	5	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: MPE)</b>				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	Dirt covered for cattle access.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>6</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		7	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	X	
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		7	7	
Roadway Surface		6	6	
(Type : <b>CONCRETE</b> )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Drainage		7	7	
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>7</b>	<b>6</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>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>74.6/73.8</b>	Est. Repl. Yr	2019	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	2006.10.25 Revisit site in 2 years to determine further usage.						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	14-Oct-2014		Previous Inspection Date	16-Mar-2005			
Inspection Cycle (Default) (months)	39						
Comment							