

Bridge Culvert Inspection				
Bridge File Number	75802 -1 Bridge Culvert		Form Type	CUL1
Year Built	1963		Lot No.	3
Bridge or Town Name	CHAUVIN		Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	17:04 C1 3.932		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Jun-2012
Legal Land Location	NW SEC 2 TWP 42 RGE 1 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-110:02:47, 52:35:35		Data Entry Date	13-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	UNDEFINED CMA		Review Date	05-Jul-2012
Clear Roadway/Skew	13 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	930 / 2011 (A)		Dept. Review Date	19-Jul-2012
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	10			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1727	1981	RPP	40.1	152X51	2.8,2.8,3.0	PIPE ARCH
Special Features								
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	Buried in W. ditch		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Longit horizontal curve S. over pipe. Est 3% gradient to S, limited sight distance. Wider shoulders @ this area.
Vertical Alignment		6	6	
Roadway Width (m)	14.100			
Embankment		7	7	Sideslopes steepen to 2:1 at ends of pipe.
Sideslope (__:1)	4.6			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	Square end.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
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): 1727, Rise (mm): 1981, Type: RPP)				
Barrel Last Accessible Date	26-Jun-2012			
Special Features				
Special Feature				50 x 50 angles tack welded long. (ph 1) at top side wall seam of extensions.
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	Could not measure rise due to dirt & concrete on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	43			(Est roof at 1938 2.2% roof. 01Sep2010).
Percent Sag				
Sidewall		6	6	Span at $R8=1762=35\text{mm}=2\%$
Measured Span (mm)	1762			
Measured At Ring No.	8			
Deflection (mm)	35			
Percent Deflection	2			
Floor		N	N	Dirt covered, concrete floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Concrete collars connect old structure to extensions. Plates not matched. No fill infiltration. Poor seams @ extension.
Separation (mm)	0			
Longitudinal Seams		5	5	Bottom seams on ext. very poorly matched with large gaps - up to 30mm - no infiltration - OK.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
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: MAIN, Span (mm): 1727, Rise (mm): 1981, Type: RPP)				
Coating		7	6	
Corrosion By Soil (Y/N)	No			
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		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	

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	Squared end.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Dirt covered.
Roadway Surface		N	6	Drop off of 0.4m at east end of asphalt approach pad.
(Type :)				
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)	No			
Drainage		8	8	
Structure In Use (Y/N)	Yes			Appears in use, but currently fenced off at E end with barbed wire.
Grade Separation General Rating		7	6	

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	Place 3m3 gravel at E end to lvl grade at end of ACP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	71.4/70.9	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)	Y						
Proposed Action	2007.12.29 Check for safety in respect to lack of guardrails. Brownlee & Associates						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	26-Mar-2014		Previous Inspection Date	01-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							