

Bridge Culvert Inspection				
Bridge File Number	81959 -1 Bridge Culvert		Form Type	CUL1
Year Built	1994		Lot No.	4
Bridge or Town Name	EAST COULEE		Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	570:01 C1 3.000		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Nov-2010
Legal Land Location	SW SEC 23 TWP 27 RGE 18 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:26:33, 51:19:15		Data Entry Date	11-Jan-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA21		Review Date	12-Dec-2010
Clear Roadway/Skew	9.4 /		Dept. Reviewer Name	Chris Black
AADT/Year	450 / 2009 (A)		Dept. Review Date	11-Jan-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	20			

**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	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						Problem (Y/N)	No				
Remarks											

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	In the middle of the curve.
Vertical Alignment		7	7	
Roadway Width (m)	9.400			
Embankment		7	N	Snow covered.
Sideslope (___:1)	2.0			On South side.
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream End**

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape : )		X	X	
Cutoff Wall		7	N	(Ends and top are visible. 19Feb2009).
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection (Type : ) (Avg. Rock Size(mm) : )		8	N	
Scour/Erosion		8	N	
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): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	26-Nov-2010			
<b>Special Features</b>				
Special Feature (Type : <b>CONC FLOOR</b> )			X	Ice and Salt covered
Special Feature (Type : )				
Roof		7	8	Could not measure rise due to conc. floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	20			
Percent Sag	1			
Sidewall		8	8	Span measured at N end = 2208 - 8mm; Midpt = 2181 - 19mm=0.9%; S end = 2190 - 10mm.
Measured Span (mm)	2181			
Measured At Ring No.				
Deflection (mm)	19			
Percent Deflection	1			
Floor		N	N	Concrete floor. Appears good. Partially covered by silt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	1 seam - minor bend at CL.
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)				
Coating		6	6	Soil is corrosive & galvanizing is gone on exterior.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	7	Also used for localized ditch runoff.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>8</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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	N	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		8	N	
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		7	7	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
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)	No			No signs of use.
<b>Grade Separation General Rating</b>		<b>7</b>	<b>7</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>77.8/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>79.2/80.8</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Also used for localized ditch runoff (06May2004). Life reduced due to corrosive soil.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.10.25 Crown quarter, remove underpass when next upgrading occurs, unless required for drainage.						
On 3-Year Program (Y/N)	N						
Proposed Action	2006.10.25 Alley fencing could be removed immediately as it is not being used.						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	26-Feb-2014		Previous Inspection Date	19-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							