

Bridge Culvert Inspection			
Bridge File Number	09077 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	4
Bridge or Town Name	CARDSTON	Inspector Name	Jon Davies
Located Over	BULLHORN COULEE, 2.12.22.12.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	LOCAL ROAD	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Dec-2012
Legal Land Location	NE SEC 27 TWP 3 RGE 26 W4M	Data Entry By	Kelsey Roberts
Longitude, Latitude	-113:25:08, 49:14:41	Data Entry Date	05-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA25	Review Date	16-Dec-2012
Clear Roadway/Skew	9 / -20 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	125 / 1993 (E)	Dept. Review Date	08-Jan-2013
Road Classification	RLU-208-100	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	6500	4500	RPE	33.5		4.0,5.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments							
Telephone	S.DITCH	Gas	TO WEST 160M.				
Power	TO WEST 50 M. 1 WIRE	Municipal					
Others		Problem (Y/N)	No				
Remarks							

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	MIDDLE OF CURVE
Vertical Alignment	6	6	BOTTOM OF SAG
			barbed wire fence & 5 delineators
Roadway Width (m)	10.500		
Embankment	8	5	Cattle tracking at U/S end behind wingwall creating drainage swale.
Sideslope (___:1)	3.0		
(Height of Cover(m) :)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	8	8	
Collar	8	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		N	N	Buried
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6500, Rise (mm): 4500, Type: RPE)				
Barrel Last Accessible Date	09-Dec-2012			Barrel too large to measure.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Shape looks very good.
Measured Rise (mm)	4440			
Measured At Ring No.	4			Est.
Sag (mm)	60			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	6544			
Measured At Ring No.	4			Est.
Deflection (mm)	44			
Percent Deflection				
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.	4			
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			@ haunches
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Minor superficial corrosion on the floor
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6500, Rise (mm): 4500, Type: RPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	4	Turn sharp into the pipe upstream Scouring u&d/s - grassed in
Bank Stability		4	5	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

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							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	81.0/81.0	Est. Repl. Yr	2045	Maint. Req'd. (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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	09-Sep-2017		Previous Inspection Date	18-Sep-2007			
Inspection Cycle (Default) (months)	57						
Comment							