

Bridge Culvert Inspection			
Bridge File Number	08393 -1 Bridge Culvert	Form Type	CUL1
Year Built	1955	Lot No.	4
Bridge or Town Name	CORONATION	Inspector Name	Jason Saly
Located Over	TRIBUTARY TO NELSON CREEK, 5.18.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	872:04 C1 13.399	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Jun-2011
Legal Land Location	SW SEC 30 TWP 37 RGE 10 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-111:26:00, 52:12:18	Data Entry Date	27-Jun-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA21	Review Date	17-Jun-2011
Clear Roadway/Skew	8.5 / -45 deg. (LHF)	Dept. Reviewer Name	Chris Black
AADT/Year	520 / 2010 (A)	Dept. Review Date	30-Jun-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1829	1118	FP	24.4	68X13	3.5	ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West side of road.	Gas	
Power	E side 3 wire 15m O/C.	Municipal	
Others	Power anchor post E side with wire running WE 5m N of culvert.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Underneath intersection on angle.
Vertical Alignment		9	8	
Roadway Width (m)	8.100			
Embankment		7	7	
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 0.6)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		SE end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	5	Rim damaged (minor).
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	6	With some rock.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Barrel Last Accessible Date	26-Mar-2008			Pipe not accessible due to rise & standing water in pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	N	Roof has very good arching ability. (9.2%. 26Mar2008).
Measured Rise (mm)	915			
Measured At Ring No.	3			
Sag (mm)	103			
Percent Sag	9			
Sidewall		6	N	(0.7%. 26Mar2008).
Measured Span (mm)	1842			
Measured At Ring No.	3			
Deflection (mm)	13			
Percent Deflection	0			
Floor		4	4	Pitting and superficial rust, most area covered with sand.
Bulge (mm)	100			
Measured At Ring No.	3			
Abrasion (Y/N)	No			
Circumferential Seams		4	N	(Minor infiltration @ each seam and hasn't washed away. 26Mar2008).
Separation (mm)	30			
Longitudinal Seams		6	N	Riveted seams.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Pitting lower 1/4. (Soil has caused small perforations. 26Mar2008).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	This pipe does not see much water as never washed away the infiltration. Minor.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	GR carried forward from 26Mar2008 based on the roof rating.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		NW end.
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	4	Equipment drove over outlet causing some damage & leaving last section in a heaved position.
Heaving (mm)	200			
Invert Above/Below Stream Bed		ABOVE		(1m in from D/S end a dam has been made about 300 mm high, man made. 02Dec2004).
Above/Below (mm)	100			
Scour Protection		N	5	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	5	
Beavers (Y/N)		No		
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading		NONE		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	63.5/62.6	Est. Repl. Yr	2014	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.07.28 Monitor normal BIM. Should be good until 2015. Replace earlier if road paved.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Bryan Wai		Previous Assistant's Name				
Next Inspection Date	09-Sep-2014		Previous Inspection Date	26-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							