

Bridge Culvert Inspection			
Bridge File Number	72477 -1 Bridge Culvert	Form Type	CULE
Year Built/Lined	1975/1998	Lot No.	4
Bridge or Town Name	PEACE RIVER	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO PEACE RIVER, 8.10.52, WATERCRS-ST	Inspector Class	BR CLS A
Located On	688:02 C1 15.789	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	04-Apr-2011
Legal Land Location	NW SEC 15 TWP 84 RGE 20 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:05:02, 56:17:23	Data Entry Date	17-May-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA04	Review Date	16-May-2011
Clear Roadway/Skew	9.8 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,110 / 2010 (A)	Dept. Review Date	14-Nov-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	16		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN Partially Lined	2898	3203	SP	104.2	152X51	2.8	ROUND
2	MAIN PARTIAL LINER	-	2600	SP	30.5	160X50	3.0	ROUND
Special Features								
Special Features Comment	Only one culvert							

Utilities (Located at)

Utility Attachments			
Telephone	WESTSIDE 20m FROM C/L/E 18m from E(BL)	Gas	
Power	EASTSIDE 18m FROM C/L 2 wireOH	Municipal	
Others	Fibre optics BC E 18m from CL	Problem (Y/N)	No
Remarks	90m South PL crosses hwy		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	APPROACHES BOTH SIDES OF PIPE
Vertical Alignment	6	6	Limited sight distance to the south.-photo 8 & 9
Roadway Width (m)	8.300		
Embankment	5	5	Some erosion gullies on W & S Ditches.-04-Sep-2007
Sideslope (__:1)	4.0		Snow covered
(Height of Cover(m) : 11)			
Guardrail (Y/N)	Yes		NW end section damaged by collision.
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Collar		4	4	Concrete cracked(photo 1,4)
Wingwalls (Shape :)		X	X	
Cutoff Wall		N	N	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 500)		4	N	Minor crack(North side only).(photo 2)-04-Jun-2007 Snow covered.
Scour/Erosion		4	N	Minor erosion N bank(photo 3)-04-Jun-2007 Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried forward.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2898, Rise (mm): 3203, Type: SP)				
Barrel Last Accessible Date	04-Apr-2011			Culvert has been lined.
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		6	6	Measurements not taken due to ice on floor.
Measured Rise (mm)	3053			
Measured At Ring No.	3			
Sag (mm)	150			
Percent Sag	5			
Sidewall		6	6	
Measured Span (mm)	3025			
Measured At Ring No.	3			
Deflection (mm)	127			
Percent Deflection	5			
Floor		N	N	Under ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)				
Longitudinal Seams		6	6	
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)	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): 2898, Rise (mm): 3203, Type: SP)				
Coating		4	4	Pitting rust on floor.(Nov 28, 2004)
Corrosion By Soil (Y/N)	Yes			Pitting rust above ice line. Alkaline deposits through bolts.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2600, Type: SP)				
Barrel Last Accessible Date	04-Apr-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	Measurements not taken due to ice on floor.
Measured Rise (mm)	2524			
Measured At Ring No.	18			
Sag (mm)	76			
Percent Sag	3			
Sidewall		7	6	Inward deflectin
Measured Span (mm)	2552			
Measured At Ring No.	18			
Deflection (mm)	48			
Percent Deflection	2			
Floor		N	N	Under ice
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	6	
Separation (mm)				
Longitudinal Seams		7	6	Rivetted culvert.
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)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2600, Type: SP)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		4	N	Riprap not to standard(photo5)-04-Jun-2007
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	N	Minor scour on SW slope(photo 6)-04-Jun-2007
Beavers (Y/N)	No			Snow covered.
Downstream End General Rating		6	4	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree bend 30m from d.s end (photo 7)
Bank Stability		4	4	Sloughing banks u/s and d/s channel.
HWM (m below Top of Culvert)	2.0			
Drift (Y/N)	No			04-Jun-2007 HWM not visible

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	DEGRADING			U/S 50m from u/s end.
Beavers (Y/N)	Yes			
(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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	60.1/58.1	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor minor erosion @ u/s and d/s ends.04-Jun-2007 Snow covered.		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	Brian Pientsch		Previous Assistant's Name	Jordan Evans			
Next Inspection Date	04-Jul-2014		Previous Inspection Date	04-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							