

Bridge Culvert Inspection				
Bridge File Number	78980 -1 Bridge Culvert		Form Type	CUL1
Year Built	1980		Lot No.	4
Bridge or Town Name	FORT ASSINIB		Inspector Name	Wade Nanninga
Located Over	GOOSE CREEK, 8.11.96, WATERCRS-ST		Inspector Class	BR CLS B
Located On	658:02 C1 46.944		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	20-May-2010
Legal Land Location	NW SEC 6 TWP 62 RGE 7 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:02:42, 54:20:15		Data Entry Date	13-Jul-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA12		Review Date	24-Jun-2010
Clear Roadway/Skew	10.1 / 20 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	430 / 2009 (A)		Dept. Review Date	15-Jul-2010
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	4550	SP	56	152X51	3.5	ROUND
Special Features								
Special Features Comment								

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		7	7	Sag curve with limited sight distance to the West. No passing WBL. "Goose Creek" sign.
Vertical Alignment		6	6	
Roadway Width (m)	9.400			
Embankment		7	7	
Sideslope (___:1)	3.0			
(Height of Cover(m) : 3)				
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		X	X	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	250			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		4	4	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Both shoulder portions of collars are undermined, approx 600mm.
Beavers (Y/N)	No			Old beaver dam at end of bevel partially opened up.
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4550, Type: SP)				
Barrel Last Accessible Date	01-Mar-2007			2.5M crown to water level-viewed from ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	Sag estimated 6.3%.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	287			
Percent Sag				
Sidewall		5	5	At c/l.
Measured Span (mm)	4382			
Measured At Ring No.				6.3% - 01-Mar-2007
Deflection (mm)	287			
Percent Deflection	6			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Viewed from ends.
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			
Coating		5	5	(Superficial rust lower half.
Corrosion By Soil (Y/N)	Yes			Soil side corrosion leaking through bolt holes at springline.-01-Mar-2007)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4550, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	GR 5 - 01-Mar-2007
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)	150			
Invert Above/Below Stream Bed	BELOW			Iced over/snow covered.
Above/Below (mm)	400			
Scour Protection		3	4	All settled 600mm both sides, loss of fill at SW corner. Riprap piled up at outlet.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	4	
Beavers (Y/N)	No			
Downstream End General Rating		3	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Beaver dam in D/S channel.
Beavers (Y/N)	Yes			
(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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	62.9/63.8	Est. Repl. Yr	2026	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor scour around bevels.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	20-Aug-2013		Previous Inspection Date	01-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							