

Bridge Culvert Inspection				
Bridge File Number	78126 -1 Bridge Culvert		Form Type	CUL1
Year Built	1976		Lot No.	2
Bridge or Town Name	VALLEYVIEW		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO SWEATHOUSE CREEK, 8.10.58.7.25.3, WATERCRS-ST		Inspector Class	BR CLS B
Located On	747:01 C1 2.540		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	24-Aug-2010
Legal Land Location	NW SEC 21 TWP 69 RGE 19 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	::, ::		Data Entry Date	07-Oct-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03		Review Date	20-Sep-2010
Clear Roadway/Skew	9.1 / -15 deg. (LHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year			Dept. Review Date	23-Nov-2010
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	34			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	MP	34.4	75X25	3.5	ROUND
Special Features	VERT STEEL STRUTS							
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West side of road		Gas	
Power	2 WIRE-20M E. SIDE OF C/L		Municipal	
Others	AGT runs through pipe to house		Problem (Y/N)	No
Remarks	TELUS LINE EXPOSED OVER TOP OF PIPE @ D/S END. (Photo)			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm accesses 40m SW and 60m NE.
Vertical Alignment		7	7	NE Ditch scour, 500mmW x 700mmD, 25m long(photo)
Roadway Width (m)	9.100			
Embankment		4	4	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2.9)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		4	4	Scour and slumping 2m from end of pipe 1mW x4mL x 0.6m D
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
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): 1524 , Type: MP)				
Barrel Last Accessible Date	24-Aug-2010			
Special Features				
Special Feature		9	9	
(Type : VERT STEEL STRUTS)				
Special Feature				
(Type :)				
Roof		5	3	Estimated due to struts through pipe.-photo
Measured Rise (mm)	1360			
Measured At Ring No.				
Sag (mm)	164			
Percent Sag	11			
Sidewall		5	3	photo 8m from u/s end.
Measured Span (mm)	1688			
Measured At Ring No.				
Deflection (mm)	164			
Percent Deflection	11			
Floor		6	6	near cl
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	1st seam & last seams
Separation (mm)	200			
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	Bottom 1/4.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1524, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	D/S end 500mm above streambed.
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	4	GR increased by 1 due to steel struts.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	Culvert end is heaving.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	500			
Scour Protection		4	4	Scour hole 2.0m from end of pipe, 8mLx3.5mW x 0.6mD.photo
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		4	4	Scour hole 2.0m from end of pipe 8mLx3.5mW x 0.6mD
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	7m d/s 90 deg bend.
Bank Stability		5	5	Upstream & downstream banks sloughing.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2010	Place 27m3 of class I riprap in NE ditch.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2010	Move phone cable before it breaks.					
OTHER ACTION	2010	Place 5m3 of class I riprap at u/s end.					
OTHER ACTION	2010	Place 17m3 of class I riprap at d/s end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	47.6/42.6	Est. Repl. Yr	2017	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider replacement over repairs.		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	Tim Miskiman			
Next Inspection Date	24-May-2015		Previous Inspection Date	24-Jul-2007			
Inspection Cycle (Default) (months)	57						
Comment							