

Bridge Culvert Inspection				
Bridge File Number	86257 -1 Bridge Culvert		Form Type	CULM
Year Built	1968		Lot No.	2
Bridge or Town Name			Inspector Name	Russel Vanderschaaf
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS B
Located On	33:12 C1 17.849		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Feb-2013
Legal Land Location	SE SEC 33 TWP 67 RGE 9 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:18:17, 54:50:12		Data Entry Date	23-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA06		Review Date	07-Apr-2013
Clear Roadway/Skew	11.4 /		Dept. Reviewer Name	
AADT/Year	1,090 / 2012 (A)		Dept. Review Date	
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	10			

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	800	MP	42			ROUND
2	MAIN	-	800	MP	42.258			ROUND
3	MAIN	-	920	MP	41.391			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	4 wires o/h along West row.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		7	7	
Roadway Width (m)	11.400			
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		E		North pipe
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		X	X	
Bevel End		N	N	Snow covered
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection		N	N	Under snow.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Under snow.
Beavers (Y/N)	No			
Upstream End General Rating		N	6	GR carried fwd 02-Nov-2012

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 800, Type: MP)				
Barrel Last Accessible Date				Culvert couldn't be inspected-due to size/snow/ice - ends covered by snow.
Special Features				
Special Feature				span 900mm rise not available due to ice. Insert/liner at bevel u/s. Snow covered.
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
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		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 800, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	drop off at d/s end
Baffle		N	X	
(Type :)				
Waterway Adequacy		N	4	Scour d/s end - culvert undersized.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		W		North pipe Steel pipe with rubber insert.
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			3	Pipe bevel end hanging 0.95m.
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1400			
Scour Protection			3	7.6mLx4.6mWx1.4m to ice scour.-photo
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			3	
Beavers (Y/N)	No			
Downstream End General Rating			3	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		E		center pipe Steel pipe with rubber insert bevel end.
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End			N	Snow covered
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection			N	Under snow
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	Under snow
Beavers (Y/N)	No			
Upstream End General Rating			6	GR carried fwd 02-Nov-2012
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 800, Type: MP)				
Barrel Last Accessible Date				Culvert not inspected-due to size/snow/ice - ends covered by snow.
Special Features				
Special Feature				Rubber insert/liner span 775mm rise 749mm at bevel u/s snow covered.
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
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		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 800, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	DROP OFF D/S END.
Baffle		N	X	
(Type :)				
Waterway Adequacy		N	4	Scour d/s end - culverts undersized.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		W		South pipe Steel pipe with rubber liner insert and bevel end.
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			3	Pipe 2 hanging 0.9m.-photo
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1800			
Scour Protection			3	4.7mLx3.6mWx1.4m to ice scour.-photo
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			3	
Beavers (Y/N)	No			
Downstream End General Rating			3	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		E		South pipe Steel pipe with rubber insert and bevel.
End Treatment (Concrete, Steel, Others, None)	OTHERS			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			N	Snow covered
Heaving (mm)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection			N	Under snow
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			N	Under snow
Beavers (Y/N)				
Upstream End General Rating			6	GR carried fwd 02-Nov-2012
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 920, Type: MP)				
Barrel Last Accessible Date				Culvert not inspected due to size/snow/ice - ends covered in snow.
Special Features				
Special Feature				span 761mm rise 759mm bevel u/s end
(Type :)				
Special Feature				SNow covered
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
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		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 920, Type: MP)				
Fish Passage Adequacy		X	X	drop off d/s end.
Baffle (Type :)		N	N	
Waterway Adequacy		N	4	Scour d/s end - culverts undersized.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		W		South pipe Steel pipe with rubber liner insert and bevel end.
End Treatment (Concrete, Steel, Others, None)		OTHERS		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	Pipe 1 hanging 1.8m.-photo
Bevel End		N	3	Under snow.
Heaving (mm)				
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)		1800		
Scour Protection (Type : NONE) (Avg. Rock Size(mm) :)		N	3	8mLx6.7mWx1.8m to ice scour pipe 1.-photo
Scour/Erosion		N	3	Under snow.
Beavers (Y/N)		No		
Downstream End General Rating		N	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		4	3	Sloughing and vertical banks-2m from d/s ends. Pipes appear to be undersized.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2013	60m3 Class 1 d/s end.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Repair and grate scour d/s end.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	66.0/48.3	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Assessment being completed winter 2012/2013.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Present structures assigned a bridge file number but are likely pre 1980 at least.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	11-Nov-2014		Previous Inspection Date	06-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							