

Bridge Culvert Inspection			
Bridge File Number	82172 -1 Bridge Culvert	Form Type	CUL1
Year Built	2008	Lot No.	4
Bridge or Town Name	WATERCOURSE STRUCTURE ON PROVINCIAL HIGHWAY 9 NEAR DRUMHELLE	Inspector Name	Owen Salava
		Inspector Class	BR CLS A
Located Over	WATERCOURSE, WATERCRS-NI	Assistant Name	
Located On	9:04 C1 22.347	Assistant Class	
Water Body Cl./Year		Inspection Date	31-Oct-2011
Navigabil. Cl./Year		Data Entry By	Marcia Chavez
Legal Land Location	SE SEC 17 TWP 28 RGE 21 W4M	Data Entry Date	30-Nov-2011
Longitude, Latitude	-112:55:18, 51:23:13	Reviewer Name	John O'Brien
Road Authority	Alberta Transportation (AIT)	Review Date	14-Nov-2011
Contract Main. Area	CMA29	Dept. Reviewer Name	Andrew Smikles
Clear Roadway/Skew	14 / 26 deg. (RHF)	Dept. Review Date	02-Dec-2011
AADT/Year	2,600 / 2010 (A)	Follow-Up By	
Road Classification	RAU-212.0-110		
Detour Length (km)			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1970	SP	78	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Plowed in S r/w.	Gas	
Power	3 wire OH, N r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	
Vertical Alignment		7	
Roadway Width (m)	14.000		
Embankment		7	
Sideslope (_ :1)	6.0		
(Height of Cover(m) : 5.4)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Upstream End General Rating			8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1970 , Type: SP)				
Barrel Last Accessible Date	31-Oct-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			8	
Measured Rise (mm)	1970			
Measured At Ring No.	9			
Sag (mm)	0			
Percent Sag	0			
Sidewall			8	
Measured Span (mm)	1970			
Measured At Ring No.	9			
Deflection (mm)	0			
Percent Deflection	0			
Floor			8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			8	
Separation (mm)	0			
Longitudinal Seams			8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			1N
Coating			8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1970, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			8	Also armoured at SW bank of channel turn.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			4	Sharp 70 deg. turn 5m u/s. 70 deg. turn at outlet - well armoured.
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			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) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/84.3	Est. Repl. Yr	2060	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			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			Previous Assistant's Name				
Next Inspection Date	31-Jul-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							