

Bridge Culvert Inspection				
Bridge File Number	77643 -1 Bridge Culvert		Form Type	CUL1
Year Built	1983		Lot No.	4
Bridge or Town Name	DELIA		Inspector Name	Owen Salava
Located Over	TRIBUTARY TO FARRELL LAKE, 21.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	851:06 C1 26.389		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	28-Jan-2011
Legal Land Location	NW SEC 31 TWP 33 RGE 17 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:24:53, 51:52:32		Data Entry Date	04-Mar-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA21		Review Date	03-Feb-2011
Clear Roadway/Skew	9 / 30 deg. (RHF)		Dept. Reviewer Name	Chris Black
AADT/Year	210 / 2009 (A)		Dept. Review Date	06-Mar-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)				

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	26	125X26	3.0	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		9	9	
Vertical Alignment		8	8	
Roadway Width (m)	9.000			
Embankment		9	9	
Sideslope (__:1)	4.0			
(Height of Cover(m) :)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		8	8	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	N	Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Rocks piled up inside bevel.
Above/Below (mm)	700			
Scour Protection		7	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		7	N	GR was 7 from 17Feb2009.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	17-Feb-2009			Drifted over, 300mm hole u/s only. Not entered due to lack of access.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	N	(Roof and sidewalls deflecting. 5.9%. Not measured due to ice. 17Feb2009). From unknown date.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	129			
Percent Sag				
Sidewall		7	N	(17Feb2009).
Measured Span (mm)	2320			
Measured At Ring No.	3			
Deflection (mm)	120			
Percent Deflection	5			
Floor		N	N	(200mm ice. 17Feb2009).
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	50			
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		5	N	(Lower wall & floor has moderate corrosion. 17Feb2009).
Corrosion By Soil (Y/N)	No			
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): 2200, Type: MP)				
Fish Passage Adequacy		5	5	(Rating carried forward).
Baffle (Type :)		X	X	
Waterway Adequacy		5	N	(Large rocks in D/S barrel. 17Feb2009).
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	N	GR was 6 from 17Feb2009.
Downstream 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	
Cutoff Wall		X	X	
Bevel End		X	X	No bevel end.
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	1200			
Scour Protection (Type :) (Avg. Rock Size(mm) :)		7	N	Snow covered.
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)		No		
Downstream End General Rating		7	7	GR carried forward from 17Feb2009.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Barrel set low & on a steep grade but rock maintains original streambed.
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM.
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		7	7	

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) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	64.8/70.7	Est. Repl. Yr	2030	Maint. Req'd. (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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	28-Apr-2014		Previous Inspection Date	17-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							