

Bridge Culvert Inspection				
Bridge File Number	77953 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	1
Bridge or Town Name	MYRNAM		Inspector Name	Owen Salava
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	881:08 C1 29.745		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	20-Dec-2010
Legal Land Location	NW SEC 14 TWP 53 RGE 9 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-111:13:51, 53:34:52		Data Entry Date	12-Jan-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA15		Review Date	22-Dec-2010
Clear Roadway/Skew	9.1 / 5 deg. (RHF)		Dept. Reviewer Name	Chris Black
AADT/Year	380 / 2009 (A)		Dept. Review Date	14-Jan-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1700	CP	26.2			ROUND
Special Features								
Special Features Comment								

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)										
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Lane	SB	On Bridge (m)	In Advance (Y/N)		
Remarks										

Utilities (Located at)			
Utility Attachments			
Telephone	ON WEST R/W		Gas
Power	1 LINE EAST R/W		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	HILL TO SOUTH
Vertical Alignment		6	6	
Roadway Width (m)	8.500			
Embankment		6	6	CRACKING ASPHALT OVER PIPE
Sideslope (___:1)	3.0			
(Height of Cover(m) :)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		4	4	HOLE IN SOUTH WALL - PHOTO #4. Concrete bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection (Type :) (Avg. Rock Size(mm) :)		5	N	Snow covered.
Scour/Erosion		5	N	
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): 1700, Type: CP)				
Barrel Last Accessible Date	20-Dec-2010			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		3	3	EXPOSED REBAR, INFILTRATION, SPALLS & CRACKS THROUGHOUT PIPE - PHOTO. Unable to measure due to silt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		3	3	Spalls, exposed rebar in numerous locations. Worst spalls at joints. Shape is ok.
Measured Span (mm)	1660			
Measured At Ring No.	5			
Deflection (mm)	40			2.3%.
Percent Deflection	2			
Floor		N	N	Dirt & ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		3	3	Infiltration many seams. Exposed rebar.
Separation (mm)	150			
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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1700, Type: CP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle			X	
(Type :)				
Waterway Adequacy		6	6	Some silt on floor.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		3	3	

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		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		5	5	Some edge degradation.	
Heaving (mm)	50				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	0				
Scour Protection		5	N	Snow covered.	
(Type :)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		5	N		
Beavers (Y/N)	No				
Downstream End General Rating		5	5		

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	6	
Roadway Surface		5	5	
(Type :)				
Icing (Y/N)	No			Dirt/silt.
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		5	5	Appears to take some flow. Apparent channel both ends.
Structure In Use (Y/N)	No			W fence in poor repair. Fenced across E bevel.
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS	2011	REBAR, SPALL & HOLE					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2011	Jack sections tight.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.0/33.3	Sufficiency Rating (Last/Now) (%)	35.5/48.1	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls, cracks, holes, infiltration & exposed rebar.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2004.05.30 Culvert should be ok until 2049. Complete minor repairs if required. If structure is not in use consider removal or "fill in" in future.						
On 3-Year Program (Y/N)	Y						
Proposed Action	2008.01.21 Have signed cattlepass removal form. Recommend replacing with a drainage culvert. Brownlee & Associates						
Previous Inspector's Name	Aime Theroux		Previous Assistant's Name				
Next Inspection Date	20-Mar-2014		Previous Inspection Date	28-Jan-2002			
Inspection Cycle (Default) (months)	39						
Comment							