

Bridge Culvert Inspection									
Bridge File Number	75385 -1 Bridge Culvert				Form Type	CUL1			
Year Built	1988				Lot No.	4			
Bridge or Town Name	NEW DAYTON				Inspector Name	Jason Rusu			
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS A			
Located On	4:04 L1 19.235;4:04 R1 19.275				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	23-Mar-2013			
Legal Land Location	SW SEC 27 TWP 5 RGE 18 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-112:21:34, 49:24:52				Data Entry Date	11-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA24				Review Date	07-Apr-2013			
Clear Roadway/Skew	26 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	2,640 / 2012 (A)				Dept. Review Date	22-Apr-2013			
Road Classification	RFD-412.4-130				Follow-Up By				
Detour Length (km)	1								
Bridge Culvert Information									
Number of Culverts	1								
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-	2000	MP	34	125X26	2.8	ROUND	
1	D/S	-	2000	MP	49	125X26	2.8	ROUND	
Special Features	STORM WATER DRAIN, CONC FLOOR								
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	Not required.								
Utilities (Located at)									
Utility Attachments									
Telephone	At East r/w.				Gas				
Power	3 wires @ East 70 m from c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road / Embankment									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Steep hill to South - 300 m sight distance.					
Vertical Alignment		6	6						
Roadway Width (m)		26.000							
Embankment		7	7						
Sideslope (___:1)		4.0							
(Height of Cover(m) : 3)									
Guardrail (Y/N)		Yes		At West side.					
Approach Road / Embankment General Rating		6	6						
Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		W		West end.					
End Treatment (Concrete, Steel, Others, None)		STEEL							

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Headwall		X	X	
Collar		X	X	
Wingwalls		7	7	Concrete wings along bevels.
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	Superficial corrosion @ haunches.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	23-Mar-2013			
Special Features				
Special Feature		8	8	150mm mud and ice covered.
(Type : STORM WATER DRAIN)				
Special Feature		6	N	
(Type : CONC FLOOR)				
Roof		5	5	3 isolated sags in roof East half - 100mm.
Measured Rise (mm)				Est.
Measured At Ring No.	13			
Sag (mm)	100			
Percent Sag	5			
Sidewall		7	7	Pipe is approx 1850mm throughout - closer to 5% ellipse than round.
Measured Span (mm)	1850			Inward.
Measured At Ring No.	5			
Deflection (mm)				
Percent Deflection	0			
Floor		N	N	Concrete & dirt covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	Re-enforced with bolts and sealed with spray foam.
Separation (mm)	60			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
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	Superficial rust.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		7	7	Concrete wingwalls at bevels
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	Concrete & dirt.
Roadway Surface		7	7	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		6	6	
Structure In Use (Y/N)	Yes			Guide fences both ends.
Grade Separation General Rating		6	6	

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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	72.4/72.3	Est. Repl. Yr	2030	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	23-Dec-2014		Previous Inspection Date	17-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							