

Bridge Culvert Inspection				
Bridge File Number	00125 -1 Bridge Culvert		Form Type	CUL1
Year Built	1992		Lot No.	4
Bridge or Town Name	FORT MACLEOD		Inspector Name	Garry Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	2:08 L1 9.164		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	23-Jan-2010
Legal Land Location	SW SEC 31 TWP 9 RGE 26 W4M		Data Entry By	Erin Roberts
Longitude, Latitude	-113:31:28, 49:46:24		Data Entry Date	21-Feb-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA26		Review Date	02-Feb-2010
Clear Roadway/Skew	12.4 /		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	5,000 / 2008 (A)		Dept. Review Date	02-Mar-2010
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	Pl./Slab Thickness	Shape
1	MAIN	-	2400	MP	35	125X26	2.8	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	Not required								

Utilities (Located at)			
Utility Attachments			
Telephone	EAST R/W		Gas
Power			Municipal
Others	Fiber Optic Line East Ditch		Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	On curve and superelevated. UNDER N/B LANES ONLY
Vertical Alignment		8	8	
Roadway Width (m)	12.500			
Embankment		5	5	Two gullies one on either side of east bevel-300 mm deep. 6:1 @ WEST
Sideslope (___:1)	4.0			
(Height of Cover (m) : 1.2)				
Guardrail (Y/N)	Yes			The west side is offset 3.0 m from shoulder.
Approach Road / Embankment General Rating		7	7	

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		X	7	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 200)				
Scour/Erosion		X	7	
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	23-Jan-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	7	Est. Sag
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	15			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	2415			
Measured At Ring No.	4			
Deflection (mm)	15			
Percent Deflection				
Floor		N	N	Average 300mm deep dirt on floor.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	65			
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		8	7	
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): 2400, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		X	5	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 250)				
Scour/Erosion		X	5	Minor erosion above barrel
Beavers (Y/N)	No			
Downstream End General Rating		8	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	X	
Roadway Surface		7	7	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		7	7	Drainage pipe and pond 20m East
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		8	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) (%)	88.9/77.8	Sufficiency Rating (Last/Now) (%)	91.0/73.7	Est. Repl. Yr	2047	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	William Reardon		Previous Assistant's Name				
Next Inspection Date	23-Oct-2011		Previous Inspection Date	13-Dec-2007			
Inspection Cycle (Default) (months)	21						
Comment							