

Bridge Culvert Inspection				
Bridge File Number	77598 -1 Bridge Culvert		Form Type	CUL1
Year Built	1973		Lot No.	4
Bridge or Town Name	PEARCE		Inspector Name	Garry Roberts
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	3:08 L1 17.178;3:08 R1 17.524		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	30-Nov-2011
Legal Land Location	NE SEC 36 TWP 9 RGE 25 W4M		Data Entry By	Anne Roberts
Longitude, Latitude	-113:15:23, 49:47:09		Data Entry Date	09-Jan-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Joel Wozney
Contract Main. Area	CMA26		Review Date	13-Dec-2011
Clear Roadway/Skew	25.7 /		Dept. Reviewer Name	Tim Davies
AADT/Year	7,460 / 2010 (A)		Dept. Review Date	10-Jan-2012
Road Classification	RAD-412.4-120		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	-	1830	MP	80	68X13	3.0	ROUND
Special Features		STORM WATER DRAIN						
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 req.								

Utilities (Located at)			
Utility Attachments			
Telephone	North r/w		Gas
Power	3 wire north 50 m from c.l		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	At west end of Pearce Road turning lanes. Pearce Road is 150 m east. Curve 200 m west.
Vertical Alignment		7	7	
Roadway Width (m)	25.700			
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			North side only.
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		Dugout located 5m from u/s end
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	350			
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): 1830, Type: MP)				
Barrel Last Accessible Date	30-Nov-2011			
Special Features				
Special Feature		N	7	
(Type : STORM WATER DRAIN)				
Special Feature				
(Type :)				
Roof		N	4	Localized roof deflection from construction R6 at 10 & 2 o'clock where roof has been bent down. Estimate 130 mm deflection located 5-10 m North of median drain Rise is 1820 at Ring 3
Measured Rise (mm)	1700			
Measured At Ring No.	6			
Sag (mm)	130			
Percent Sag	7			
Sidewall		N	6	
Measured Span (mm)	1780			
Measured At Ring No.	6			
Deflection (mm)	50			
Percent Deflection	3			
Floor		N	N	Silt and gravel on the floor
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	
Separation (mm)	30			
Longitudinal Seams		N	5	Riveted seams in North (original) barrel
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1830, Type: MP)				
Coating		N	5	Superficial corrosion
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			At North 1/2
Ponding (Y/N)	Yes			At North end
Fish Passage Adequacy		X	X	
Baffle (Type :)		X	X	
Waterway Adequacy		4	4	(Water is within 0.3m of roof.)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	4	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 350)		7	7	
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	45 DEG. TURN AT NORTH END
Roadway Surface (Type :)		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Icing (Y/N)	Yes			Ponding in summer
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		3	3	Drainage rated '3' due to past flooding comment. Dug out fills up and backs up into the pipe.
Structure In Use (Y/N)	No			Cattle in pipe at Nov./11 inspection
Grade Separation General Rating		3	3	

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) (%)	33.3/44.4	Sufficiency Rating (Last/Now) (%)	42.9/47.9	Est. Repl. Yr	2025	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	30-Aug-2013		Previous Inspection Date	19-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							