

Bridge Culvert Inspection										
Bridge File Number	73885 -1 Bridge Culvert				Form Type	CULE				
Year Built	1952				Lot No.	2				
Bridge or Town Name	BROOKS				Inspector Name	Jon Davies				
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B				
Located On	1:18 R1 1.618;1:18 L1 1.636				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	05-Feb-2012				
Legal Land Location	NE SEC 23 TWP 19 RGE 15 W4M				Data Entry By	Lauren Korte				
Longitude, Latitude	-111:58:14, 50:37:47				Data Entry Date	08-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA23				Review Date	12-Feb-2012				
Clear Roadway/Skew	25.4 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	7,860 / 2010 (A)				Dept. Review Date	11-Mar-2012				
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	1980	1980	BP	14.6			RECTANGLE		
1	D/S	2560	2310	RPE	44.5			ELLIPSE		
Special Features										
Special Features Comment										
Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)	No									
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	North ROW.				Gas	CROSSING 50 m EAST				
Power	N side, 1 wire 35m FROM C.L.				Municipal					
Others	Fibre optic cable North ROW.				Problem (Y/N)	No				
Remarks										
Approach Road / Embankment										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	Intersection to east. 20 m.					
Vertical Alignment			9	9						
Roadway Width (m)	25.400									
Embankment			5	5	Road is within 1.0m of South end					
Sideslope (__:1)	4.0									
(Height of Cover(m) : 0.5)										
Guardrail (Y/N)	Yes									
Approach Road / Embankment General Rating			7	7						
Upstream End										
Culvert Component			Last	Now	Explanation of Condition					
Direction			N		North					
End Treatment (Concrete, Steel, Others, None)	STEEL									

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	MOWER DAMAGE AT ROOF.
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			
Upstream End General Rating		5	5	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)				
Barrel Last Accessible Date	05-Feb-2012			Concrete box
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Estimate.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	1980			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	DIRT COVERED - 200 mm.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	X	Const. joint only
Separation (mm)	0			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1980, Rise (mm): 1980, Type: BP)				
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)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	200mm of dirt on the floor- also handles drainage
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)				
Barrel Last Accessible Date	05-Feb-2012			SPCSP
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	ESTIMATED
Measured Rise (mm)	2270			
Measured At Ring No.	5			
Sag (mm)	40			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2600			
Measured At Ring No.	5			
Deflection (mm)	40			
Percent Deflection	2			
Floor		N	N	DIRT COVERED - 200 mm.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			

Bridge Culvert Barrel							
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Location Code: D/S, Span (mm): 2560, Rise (mm): 2310, Type: RPE)							
Longitudinal Seams		5	5	Poor nesting @ roof line - gaps to 4 mm. @ ring # 4.			
Total No. of Cracked Rings	0						
Total No. of Rings with Two Cracked Seams	0						
Min. Remaining Steel Between Cracks (mm)	0						
Proper Lap (Y/N)	No						
Longitudinal Stagger (Y/N)	No						
Coating		5	5	Minor white stains @ roof seam. MINOR SUPERFICIAL CORROSION @ U/S BEVEL.			
Corrosion By Soil (Y/N)	Yes						
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		7	7	200mm of dirt on the floor- also handles drainage			
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel Extension General Rating		5	5				
Downstream End							
Culvert Component		Last	Now	Explanation of Condition			
Direction		S		South			
End Treatment (Concrete, Steel, Others, None)	CONCRETE						
Headwall		4	4	Scaling & SPALLING			
Collar		X	X				
Wingwalls		X	X				
(Shape :)							
Cutoff Wall		X	X				
Bevel End		5	5	ISOLATED MEDIUM SCALING.			
Heaving (mm)	0						
Invert Above/Below Stream Bed	BELOW						
Above/Below (mm)	500						
Scour Protection		7	7				
(Type : NATURAL)							
(Avg. Rock Size(mm) :)							
Scour/Erosion		7	7				
Beavers (Y/N)	No						
Downstream End General Rating		4	4				

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	FENCE NOT ATTACHED AT SOUTH.
Roadway Surface		7	7	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		5	5	

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	2012	Repair South headwall- Approximately 0.1 m3					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	59.6/59.6	Est. Repl. Yr	2032	Maint. Req. (Y/N)	Yes
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	05-Nov-2013		Previous Inspection Date	15-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							