

Bridge Culvert Inspection									
Bridge File Number	78522 -1 Bridge Culvert				Form Type	CUL1			
Year Built	1976				Lot No.	1			
Bridge or Town Name	DOROTHY				Inspector Name	Jason Saly			
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Oct-2012			
Legal Land Location	NW SEC 3 TWP 27 RGE 17 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:19:31, 51:16:59				Data Entry Date	02-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	UNDEFINED CMA				Review Date	25-Oct-2012			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year					Dept. Review Date	19-Nov-2012			
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	999								
Bridge Culvert Information									
Number of Culverts	1								
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-	2134	MP	20.1	68X13	3.5,3.5,3.5	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					Gas				
Power	Crosses road N of pipe.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road / Embankment									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	7	Red Deer river bridge. South side of pipe (47m). SH 848 intersection.					
Vertical Alignment		8	8						
Roadway Width (m)	8.000								
Embankment		7	7						
Sideslope (__:1)	3.0								
(Height of Cover(m) : 2)									
Guardrail (Y/N)	No								
Approach Road / Embankment General Rating		8	7						
Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
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	Squared end
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		X	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Barrel Last Accessible Date	18-Oct-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	3	Seam bent on first joint. Could not take rise measurements due to dirt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				Estimated.
Percent Sag	10			
Sidewall		4	3	Span at E end=2292=158 Span to Midpipe=2403=269=12.6% Span at W end=2374=240
Measured Span (mm)	2403			
Measured At Ring No.				
Deflection (mm)	269			
Percent Deflection	13			
Floor		N	N	DIRT FLOOR
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	80			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2134, Type: MP)				
Coating		6	6	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	NO DRAINAGE
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	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		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		X	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	DIRT FLOOR
Roadway Surface		6	6	
(Type :)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		6	6	
Structure In Use (Y/N)	No			
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) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	63.7/58.2	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Remove off S.A. inspection list; responsible RA - AT is on SH848. Culvert is not in use; consider removal or strutting. No immediate action - monitor.		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	Glen Smith	Previous Assistant's Name								
Next Inspection Date	18-Jul-2017	Previous Inspection Date	26-Sep-2007							
Inspection Cycle (Default) (months)	57									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS						
PLACE ADDITIONAL RIP RAP						
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Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	63.7/58.2	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Remove off S.A. inspection list; responsible RA - AT is on SH848. Culvert is not in use; consider removal or strutting. No immediate action - monitor.		Department Comments	Replacement programmed for 2021. In the maintenance programming spreadsheet to be filled with grout or foam budget permitting.		
Maintenance Reviewed By	Andrew Smikles		Date	12-Dec-2012	Estimated Total	0
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Glen Smith		Previous Assistant's Name			
Next Inspection Date	18-Jul-2017		Previous Inspection Date	26-Sep-2007		
Inspection Cycle (Default) (months)	57					
Comment						