

Bridge Culvert Inspection												
Bridge File Number	76182 E-1 Bridge Culvert					Form Type	CUL1					
Year Built	1998					Lot No.	3					
Bridge or Town Name	COCHRANE					Inspector Name	Garry Roberts					
Located Over	MUNICIPAL					Inspector Class	BR CLS A					
Located On	1:06 R1 13.648					Assistant Name						
Water Body Cl./Year						Assistant Class						
Navigabil. Cl./Year						Inspection Date	12-Feb-2012					
Legal Land Location	NE SEC 36 TWP 24 RGE 5 W5M					Data Entry By	Lauren Korte					
Longitude, Latitude	-114:33:38, 51:05:29					Data Entry Date	14-Mar-2012					
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey					
Contract Main. Area	CMA28					Review Date	22-Feb-2012					
Clear Roadway/Skew	13.1 /					Dept. Reviewer Name	Tim Davies					
AADT/Year	18,200 / 2010 (A)					Dept. Review Date	22-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	8000	4700	PCB	31			RECTANGLE				
Special Features												
Special Features Comment												
Posting Information												
Required Vert. Clearance Posting (m)	UNDER: MUNICIPAL 4.4m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)	4.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	Yes
Remarks	S/B posting is on W/B bridge.											
Utilities (Located at)												
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE											
Telephone	SOUTH R/W.					Gas						
Power	South.					Municipal						
Others	FIBRE OPTICS North R/W.					Problem (Y/N)	No					
Remarks	Vacant conduit at both curbs.											
Approach Road / Embankment												
			Last	Now	Explanation of Condition							
Horizontal Alignment			6	6	Ridge road.							
Vertical Alignment			6	6								
Roadway Width (m)	13.000											
Embankment			6	6								
Sideslope (___:1)	2.0											
(Height of Cover(m) : 0.3)												
Guardrail (Y/N)	Yes				1 broken post at Southeast. Galvanized bridge rail over culvert.							
<b>Approach Road / Embankment General Rating</b>			<b>6</b>	<b>6</b>								
Upstream End												
<b>Culvert Component</b>			Last	Now	Explanation of Condition							
Direction					North end-common wall with 76182W through median.							
End Treatment (Concrete, Steel, Others, None)	CONCRETE											
Headwall			8	8	Narrow vertical cracks.							
Collar			X	X								

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		8	8	Narrow vertical cracks.
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 8000, Rise (mm): 4700, Type: PCB)				
Barrel Last Accessible Date	12-Feb-2012			
<b>Special Features</b>				
Special Feature				Safety rail mounted on wingwalls.
(Type : )				
Special Feature				
(Type : )				
Roof		8	8	Narrow to med vertical crack in sidewall @ pile locations.
Measured Rise (mm)	4700			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	8000			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		7	7	Wide trans cracks in concrete floor @ median.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	35			
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)	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): 8000, Rise (mm): 4700, Type: PCB)				
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			
Siltng (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>8</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				South end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	Med vertical cracks @ post locations.
Collar		X	X	
Wingwalls		8	8	Safety railing on wingwall. Wingwall @ S end only. North end is common wall with 76182W.
(Shape : )				
Cutoff Wall		X	X	Narrow vert cracks.
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	Local road access to Hwy 1.
Roadway Surface		5	5	Intersection @ South 90 degree curve to North.
(Type : )				
Gravel approaches.				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
Drainage		6	6	
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

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	Replace 1 T.T post at SE approach.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>84.9/84.9</b>	Est. Repl. Yr	2068	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	12-Nov-2013		Previous Inspection Date	14-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							