

Bridge Culvert Inspection				
Bridge File Number	78521 -1 Bridge Culvert		Form Type	CUL1
Year Built	1976		Lot No.	1
Bridge or Town Name	DOROTHY		Inspector Name	Owen Salava
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	848:02 C1 10.505		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Jan-2011
Legal Land Location	NE SEC 4 TWP 27 RGE 17 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-112:19:39, 51:17:03		Data Entry Date	04-Mar-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA21		Review Date	03-Feb-2011
Clear Roadway/Skew	7.1 /		Dept. Reviewer Name	Chris Black
AADT/Year	80 / 2009 (A)		Dept. Review Date	07-Mar-2011
Road Classification	RCU-208-110		Follow-Up By	
Detour Length (km)	42			

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	18.3	68X13	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)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)	No	
Remarks	Not Required										

Utilities (Located at)			
Utility Attachments			
Telephone	W ditch Telus.		Gas
Power	Runs E & W 58m S of pipe.		Municipal
Others	200 pipeline thru pipe		Problem (Y/N) No
Remarks	Yield sign @ pipe going S.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	45 m N of jct 570 & 848.
Vertical Alignment		6	6	Curve 150 m N of pipe. Narrow road.
Roadway Width (m)	7.100			
Embankment		4	4	Sharp shoulder at culvert.
Sideslope (___:1)	2.0			
(Height of Cover(m) : 1.7)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

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

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Wingwalls (Shape : )		X	X		
Cutoff Wall		X	X		
Bevel End		X	X		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	350				
Scour Protection (Type : ) (Avg. Rock Size(mm) : )		6	N	Snow covered.	
Scour/Erosion		6	N	Snow covered.	
Beavers (Y/N)	No				
<b>Upstream End General Rating</b>		<b>6</b>	<b>6</b>	GR carried forward from 18Feb2009.	
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	27-Jan-2011			Design 2134.	
<b>Special Features</b>					
Special Feature (Type : )					
Special Feature (Type : )					
Roof		3	3	Roof is flattening out.	
Measured Rise (mm)				Not measured due to 700mm silt.	
Measured At Ring No.				Est. same as sidewalls - 14%	
Sag (mm)	296			(19Oct2004)	
Percent Sag	14				
Sidewall		3	3		
Measured Span (mm)	2430				
Measured At Ring No.	2				
Deflection (mm)	296				
Percent Deflection	14				
Floor		N	N	700mm silt.	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		6	6		
Separation (mm)	70				
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		6	6		
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): 2134, Type: MP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		4	4	Handles drainage. Irrigation pipe running through pipe is strapped to S wall. 0.7m silt.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>3</b>	<b>3</b>	

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)	500			
Scour Protection		7	N	Snow covered.
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	GR carried forward from 18Feb2009.

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	6	
Roadway Surface		5	5	
(Type : SOIL)				
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		5	5	
Structure In Use (Y/N)	No			
<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	2020	Remove and replace with small drainage pipe.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>46.0/46.0</b>	Est. Repl. Yr	2020	Maint. Req'd. (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)	N						
Proposed Action	2006.10.25 Check this site in two years to determine continued usage.						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Apr-2014		Previous Inspection Date	18-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							