

Bridge Culvert Inspection				
Bridge File Number	73990 -1 Bridge Culvert		Form Type	CUL1
Year Built	1979		Lot No.	3
Bridge or Town Name	CREMONA		Inspector Name	Owen Salava
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	22:18 C1 4.329		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	22-Oct-2012
Legal Land Location	NW SEC 22 TWP 30 RGE 4 W5M		Data Entry By	Marcia Chavez
Longitude, Latitude	-114:29:38, 51:35:03		Data Entry Date	08-Nov-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA28		Review Date	30-Oct-2012
Clear Roadway/Skew	11 / 10 deg. (RHF)		Dept. Reviewer Name	Andrew Smikles
AADT/Year	3,040 / 2011 (A)		Dept. Review Date	13-Nov-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	6			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	2090	2310	MPE	28	75X25	2.8	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)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											

Utilities (Located at)

Utility Attachments												
Telephone	Over West end.				Gas	100m South of culvert.						
Power	3 wires East fence.				Municipal							
Others					Problem (Y/N)	No						
Remarks	Telus line plowed over West end.											

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Hill 200m South.
Vertical Alignment		8	8	
Roadway Width (m)	11.000			
Embankment		7	7	8:1 then 3:1.
Sideslope (___:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	Yes			8 broken posts.
Approach Road / Embankment General Rating		8	8	

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		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		N	7	Takes some flow from East.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	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): 2090, Rise (mm): 2310, Type: MPE)				
Barrel Last Accessible Date	22-Oct-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	5	
Measured Rise (mm)	2180			
Measured At Ring No.	2			
Sag (mm)	130			
Percent Sag	5			
Sidewall		N	5	
Measured Span (mm)	2220			
Measured At Ring No.	2			
Deflection (mm)	130			
Percent Deflection	5			
Floor		N	N	(Mud/dirt. 27Sep2009).
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	At last coupler @ E 90mm. 1st coupler 60mm separation & 40mm vertical gap.
Separation (mm)	90			
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		N	N	(Minor superficial corrosion @ exterior, @ crown, @ soil line. 27Sep2009).
Corrosion By Soil (Y/N)	Yes			
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): 2090, Rise (mm): 2310, Type: MPE)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
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)	250			
Scour Protection		N	7	Takes some flow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Roadway Surface		N	6	
(Type : GRAVEL)				
Icing (Y/N)	Yes			(Average 150mm ice on floor. 28/02/05).
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		N	6	
Structure In Use (Y/N)	Yes			Fences in good condition.
Grade Separation General Rating		4	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	2012	Replace broken guardrail posts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	51.3/59.0	Est. Repl. Yr	2023	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	22-Jul-2014		Previous Inspection Date	07-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							