

Bridge Inspection							
Bridge File Number	73202 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1969/1969			Lot No.	2		
Bridge or Town Name	CADOMIN			Inspector Name	Todd Warshawski		
Located Over	LUSCAR CREEK, 8.11.107.53, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	40:28 C1 0.631			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	30-Oct-2012		
Legal Land Location	NE SEC 17 TWP 47 RGE 23 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:19:31, 53:03:22			Data Entry Date	30-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	28-Nov-2012		
Clear Roadway/Skew	8.2 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	210 / 2011 (A)			Dept. Review Date	06-Dec-2012		
Road Classification	RCU-209G-90			Follow-Up By			
Detour Length (km)	83						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information								
Required Load Posting (t)			Single		Semi		Truck Train	
Posted Loading (t)			Single		Semi		Truck Train	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks	Not required.							
Hazard Marker At Bridge (Y/N)	No							
Remarks	Not required.							
Other Sign Types	Information, Missing "Luscar Creek" ID @ NW corner.							

Utilities (Located at)			
Utility Attachments			
Telephone	East & West r/w, West overhead.		Gas
Power	3 wires West approx 50 m.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Cadomin intersection 400m South. Winding road to the North at bottom of steep grade (est 6%).
Vertical Alignment		4	4	
Roadway Width (m)	8.200			Potholes @ centreline at both ends of bridge.-03-Oct-2012
Approach Bump		4	5	
Guardrail (Y/N)	Yes			Insufficient length & posts, minor dents. TD end not flared, in straight line, typical all corners. SE - damaged turndown end; 3 split TT posts. NW & SW - 1 split TT post.-03-Oct-2012 Not thrie beam. Under snow.
Guardrail		4	N	
Length (m)	30.400			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		4	N	Windrow under approach rails impedes approach drainage.-03-Oct-2012
<b>Approach Road General Rating</b>		<b>4</b>	<b>4</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Heavy buildup of gravel in gutters.-03-Oct-2012
<b>Last</b>	30	0	0	0	
<b>Now</b>	100.0				
Wearing Surface			X	X	(Cracks visible in connection pocket grout.-05-Feb-2009)
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			5	N	Heavily abraded/severe scaling by gravel.- Feb, 2009
Deck Rideability			7	7	
Deck Joints			4	N	Damaged buffer angles @ A2G7, A1G3 & G5.-03-Oct-2012 Snow covered.
Bump (Y/N)		No			
Deck Drainage			5	N	Heavy buildup 25 to 50mm depth of gravel in gutters.-03-Oct-2012
Drains Clogged (Y/N)		Yes			
Curbs/Median			6	N	Snow covered.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Single layer. Splice not at post.-photo
(Type : <b>FLEX BEAM;GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					
Girders			4	4	G2 - wide cracks both legs in centre;one leg in AZ G2/G3 - spalling center section above main longitudinal rebar - photo. G8/G9/G10 - wide cracks & spalling centre section. G2 + G3 main bar has 10% section loss. (Cracks visible in connection pocket grout.-05-Feb-2009)
Last Complete Inspection Date		30-Oct-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>10</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>4</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		2.70				
Wingwalls			5	4		
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				7	7	
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
Bearing Seats/Caps/Corbels				X	X	
(Type : )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			5	5		
2 - double 300 x 75 TT struts. 5 - 150 x 250 TT struts.- 1 with minor split. P4 & P6 - struts bowing 25mm.						
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Sharp turn 20m d/s.
(D/S Direction : <b>E</b> )				
Alignment		7	5	
Bank Stability		7	5	CUt/vertical bank 20m d/s.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace damaged end in SE approach rail; 3 split TT posts @ SE & 1 split TT post @ NW & SW.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2013	Annually wash deck surface, gutters & flush deck drains.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS	2013	Consider Level II timber coring on all TT caps & piles.- low priority.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Recommend assessment of girders to determine repair vs replacement. Consider deck o/l to extend service life after girders are repaired/replaced.-low priority.					
OTHER ACTION	2013	Removal of windrows under approach rail to improve approach road drainage.					
OTHER ACTION	2013	Consider installation of double layered flexbeam & properly lapped/spliced.					
OTHER ACTION	2013	Replace missing river ID sign @ NW.-low priority.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.8/49.3</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)							

Proposed Action			
Previous Inspector's Name	Bryan Wai	Previous Assistant's Name	Junaid Iqbal
Next Inspection Date	30-Jul-2014	Previous Inspection Date	03-Oct-2012
Inspection Cycle (Default) (months)	21		
Comment			