

Bridge Inspection										
Bridge File Number	13109 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	4				
Bridge or Town Name	HINES CREEK				Inspector Name	Russel Vanderschaaf				
Located Over	HINES CREEK, 8.10.80, WATERCRS-ST				Inspector Class	BR CLS B				
Located On	64:06 C1 5.155				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Nov-2011				
Legal Land Location	SE SEC 21 TWP 83 RGE 4 W6M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-118:33:16, 56:12:25				Data Entry Date	21-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04				Review Date	20-Nov-2011				
Clear Roadway/Skew	10.5 /				Dept. Reviewer Name	Steve Pasquan				
AADT/Year	1,030 / 2010 (A)				Dept. Review Date	10-Jan-2012				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	15									
Allowable Load (t):	Single		Semi		Train		----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	NE sign 1st guardrail post from bridge								
Other Sign Types	"Hines Creek" NW & SE corners								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	OH power East of highway				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Entrance 100m North. Approach 50m Southeast side.					
Vertical Alignment		8	8						
Roadway Width (m)	10.800								
Approach Bump			6	7					
Guardrail (Y/N)	Yes								
Guardrail			3	6					
Length (m)	45.600								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			6	7					
Approach Road General Rating		7		7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Patches @ piers & abut.'s joints Patches along 2 long cracks
Last					
Now					
Wearing Surface			6	6	
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	7	
Deck Joints			N	N	Covered with ACP.
Bump (Y/N)		No			
Deck Drainage			6	7	
Drains Clogged (Y/N)					
Curbs/Median			4	4	200 X 100 X 30mm chip on SW under bridgerail post #2. SW curb beginning to spall500 mm wide crack SW curb post 2 anchor zone.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	5	NE connection minor damage 1 bolt ,missing
(Type : GALVANIZED STEEL TUBE BEAM TYPE 2)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			5	5	SPAN 2, GIRDER 9,HAIRLINE CRACK FOR WHOLE LENGTH ON GIRDER UNDERSIDE.
Last Complete Inspection Date					
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
Backwalls/Breastwalls				4	4	45mm gap between planks at SW.
Greatest Height (m)		1.70				75MM gap between N backwall planks-loss of fill material through gap. North backwall pushing in and not low enough.
Wingwalls				4	4	SW WING HAS ROTTEN TOP PLANK, NO FILL LOST.
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				5	5	All piles have vertical shrinkage cracks. Hammer sounded all piles no rot suspected.
Paint/Coating				5	5	
Abutment Stability				6	5	
Scour/Erosion				6	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				6	5	
(Type : STEEL)						
(Depth(mm) : 355)						
(Width(mm) : 375)						
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				4	4	PIER 2 TILTING NORTH SLIGHTLY.
Greatest Height (m)		2.80				Vertical cracks 6 to 8mm gap on several pier piles.
Bracing/Struts/Sheathing				4	4	North diagonal bracing broken at end and poorly connected to P2P4. North horizontal strut broken on NE corner.
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Starting to rust, areas of pitting rust.
(Colour Description : GREEN)				
(Colour Code : 14193)				
Pier Stability		5	4	
Scour		N	5	
Debris (Y/N)	Yes			Drift on N. side.
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		7	6	
Bank Stability		5	6	
HWM (m below Top of Curb)				HWM NOT VISIBLE.
Drift (Y/N)	Yes			
Slope Protection		5	4	U/S channel moving North
(Type : NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	58.3/58.4	Est. Repl. Yr	2020	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	03-Aug-2013		Previous Inspection Date	24-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							