

Bridge Inspection									
Bridge File Number	76212 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1968/1968				Lot No.	2			
Bridge or Town Name	HINES CREEK				Inspector Name	Brian Pientsch			
Located Over	CLEAR RIVER, 8.10.93, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	64:02 C1 22.519				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	07-Dec-2011			
Legal Land Location	SW SEC 28 TWP 84 RGE 11 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-119:40:52, 56:18:28				Data Entry Date	03-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	13-Dec-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	David Morrison			
AADT/Year	450 / 2011 (A)				Dept. Review Date	05-Apr-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single	CS1 41 GIRDER		Semi	CS2 49 GIRDER		Train	CS3 64 GIRDER	
Design Loading:	HS20								---> On Critical Spans --->Critical Member ---> Primary Span

Posting Information									
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)			Yes						
Remarks			All hazard markers bent/knocked down						
Other Sign Types			Clear River, Curve, Campground, Slippery, Slower Traffic keep right.						

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			5	5	Curves on both approaches. Bottom of sag curve. 10% grade.					
Vertical Alignment			4	4						
Roadway Width (m)		10.000								
Approach Bump				5						5
Guardrail (Y/N)		Yes								
Guardrail				6						6
Length (m)		49.400								
Current Standard (Y/N)		Yes								
Termination Type		TURNED DOWN								
Drainage			3	3	Erosion @ SW Corner. Concrete down drain broke, and seperated at NW & SW. Two erosion channels under S1, one at south end one in middle seems to originate from NW corner.-photo Snow/ice covered.					
Approach Road General Rating			4	4						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 27.4-27.4-27.4, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.
Last	5	0	0	0	
Now	15.0				
Wearing Surface			5	4	Approx 6 sq. m of chip seal spalled from deck.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	Both piers have staining all joints look like they have been repaired at some point.
Temperature (deg. C)		-15			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80		Abut 1			
74		Pier 1			
77		Pier 2			
82		Abut 2			
Deck Drainage			7	7	NO DRAINS
Drains Clogged (Y/N)		No			
Curbs/Median			4	N	Spalled on top @ S1 South side.-15-Mar-2010
(Curb Type : JERSEY/F SHAPE)					Snow covered
Scaling (Percent Area)		30			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	S1G1, G3 spall with stressing strand exposed and rusting-wide longitudinal ck in chamfer between web and flange. G3 & G4S2 both spalled in 3 locations, rust stains and stressing gland exposed.-photo
Last	0	0	0	12	
Now				18	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 27.4-27.4-27.4, A-Ident Number:)				
Girders		3	3	Numerous minor spalls on girder leg bottoms from construction. Typical FC chamfer cracks. Girder S1G1, 2&3-spalling at abut 1 @ diaphragm location. Vertical cracks at West end S1G1. All girders have rust spots on bottom of legs and longitudinal cks.-photo
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		4	4	Spalls in abut 1 diaphragms G1,2,3 into underside of girder.
Bearings		2	4	Pads are showing distortion. S1G1,&G6, S3G1,G6 moved 30mm. S3G2 grout pad spalled.
Temperature (deg. C)	8			
(Expansion Type : DISC BEARING)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	No			
Deck Underside		5	5	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			Pads are showing signs of distortion, S1G1 & G6 and S3G1 & G6 moved 30mm
Horizontal (Y/N)	Yes			
Superstructure General Rating		2	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	4	100mx100m spalls SW & NE corner of backwalls.
Wingwalls		3	3	Salt deterioration and spalling at all four wingwalls.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	5	
Scour/Erosion		3	3	1x2m erosion scars on W. headslope originating from sides.-photo
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 1:1)				Several small spalls on WEst side pier 1, top N side.
Pier Shaft/Piles		5	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	Nose plate rusting
Paint/Coating		4	4	Capseal peeling.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Minor drift (100mm dia) NW bank.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		4	4	River attacking West headslope and undermining toe of slope.
Bank Stability		3	4	
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	Yes			
Slope Protection (Type : CONCRETE)		3	3	Concrete slope protection E. headslope . Only toe of W. headslope eroded 1m deep.-photo
Guidebank/Spurs		8	8	2 spurs on East upstream bank.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		3	3	

Comment	
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