

Bridge Inspection									
Bridge File Number	74426 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1956/1956				Lot No.	2			
Bridge or Town Name	HAZELDINE				Inspector Name	Jason Saly			
Located Over	VERMILION RIVER, 6.5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	45:12 C1 6.468				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	21-Jan-2013			
Legal Land Location	SE SEC 19 TWP 53 RGE 3 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-110:25:48, 53:35:24				Data Entry Date	08-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA15				Review Date	13-Feb-2013			
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Chris Black			
AADT/Year	840 / 2011 (A)				Dept. Review Date	14-Mar-2013			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 50 GIRDER	Train	CS3 68 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	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	None required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Too low, on spring base.								
Other Sign Types	Campground; Narrow Bridge; Bump (E approach)								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve at top of crest to East. Grades up in both directions, approx 5%. No passing. Campground access 150m West.				
Vertical Alignment			6	6					
Roadway Width (m)	12.300								
Approach Bump			7	7	Bump sign ~300m to W.				
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	45.700				45.7m @ SW & NE; 38.0m @ NW & SE.				
Current Standard (Y/N)	No				Insufficient posts. Not thrie beam transition, (too low, 430mm pavement to rail c/l - photo. 09Dec2010).				
Termination Type	Turned Down								
Drainage			7	N	(Short transverse concrete drain trough West. 09Dec2010) - Snow covered.				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : CT, 3 Spans, Lengths(m): 16.2-22.6-16.2, A-Ident Number: )						
<b>Special Features</b>						
Special Feature		5	4	Some rods are corroding. One stirrup broken along the N girder on S2.		
(SType : <b>EXT SHEAR STIRRUP</b> )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered. Wheelpaths visible only.	
<b>Last</b>	70	0	0	15		
<b>Now</b>	60.0	0.0	0.0	0.0		
Wearing Surface		3	4	Chipseal coat on FRSF concrete o/l. Chipseal coat has been spray patched. Minor loss along deck jnts. 24m2 loss seal coat as per 2010 deck inspection. 8m2 debonded FRSF concrete o/l.		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		8	4	New Koke joints installed, both abuts. Leakage through the W abut jnt. Elastomeric.		
Temperature (deg. C)		-18				
(Expansion Type : <b>OTHER</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
0		West abutment				
0		East abutment				
Deck Drainage		N	4	Water ponds over abut joints in gutter area; leakage visible along the W backwall.		
Drains Clogged (Y/N)		No				
Curbs/Median		N	N	(Typical vertical flexural cracks every approx 1.0m spaced. 16Aug2009). Snow/ice covered.		
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail		7	7	(Grout pads starting to crack & spall, only 2 SE & SW; some look recently patched. 16Aug2009). Post bases snow/ice covered.		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts		N	N			
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating		7	7			
(Type : <b>GALVANIZED</b> )						
Sidewalk		X	X			
Girders		6	6	S1G4 has narrow shear cracks, repaired by external stirrups.		
Diaphragms/Cross Frame		4	4	Transverse cracks with narrow random vertical cracks in end diaphragms. Diaphragm btwn S1G1 & G2 at abut with heavy scaling & cracking from old leaks (photo) - no action required at this time; ensure jnts are water tight.		
Bearings		4	4	Bearings are 45mm off pads at E abut. W plates are underextended by 15mm. Rockers, P2, over-extended. All bearings rusting.		
Temperature (deg. C)		-18				
(Expansion Type : <b>ROCKER BEARING</b> )						
(Fixed Type : <b>PINNED BEARING</b> )						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside		6	6	Transverse cracking, some with efflorescent.		
Stains (Percent Area)		1				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Lengths(m): 16.2-22.6-16.2, A-Ident Number: )				
<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>				
Bearing Seats		6	6	Stained at both abuts; leakage noted at W abut.
Backwalls/Breastwalls		6	6	
Wingwalls		6	N	Snow covered.
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		6	6	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		7	7	
Nose Plate		7	7	
Paint/Coating		5	5	Nose plates rusted.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	N	Ice covered.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		6	N	(Minor slumping 150m U/S. 09Dec2010) - Snow covered.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2013	Spray patch repair.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Seal W abut jnt.					
RESET/ PAINT BEARINGS	2013	Reset.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace broken stirrup.					
OTHER ACTION	2013	Reset HMs to std height.					
OTHER ACTION	2013	Re-grout bridgerail post grout pads (2), if not yet done.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.7/57.1</b>	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Continue regular sealing practices.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	21-Oct-2014		Previous Inspection Date	09-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							