

Bridge Inspection				
Bridge File Number	09469 N-1 Bridge		Form Type	CON
Year Built/Year Supstr	1960/1960		Lot No.	4
Bridge or Town Name	HIGH RIVER		Inspector Name	Garry Roberts
Located Over	LITTLE BOW RIVER, 2.12.12, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2:10 R1 46.571		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	02-Oct-2011
Legal Land Location	NE SEC 19 TWP 18 RGE 28 W4M		Data Entry By	Erin Roberts
Longitude, Latitude	-113:49:41, 50:32:30		Data Entry Date	16-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Tom Carey
Contract Main. Area	CMA27		Review Date	07-Oct-2011
Clear Roadway/Skew	11.6 /		Dept. Reviewer Name	Tim Davies
AADT/Year	10,970 / 2010 (A)		Dept. Review Date	17-Nov-2011
Road Classification	RFD-412.4-130		Follow-Up By	
Detour Length (km)	1			

Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 60 GIRDER	Train	CS3 82 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)		In Advance (Y/N)		At Bridge (Y/N)
Remarks	Not Required						

Hazard Marker At Bridge (Y/N)	No
Remarks	
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	East ditch.	Gas	
Power	North 100m	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Hill to South
Vertical Alignment		6	6	
Roadway Width (m)	11.600			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			None @ NW. Attached to bridge With Strong posts. Not thriebeam
Guardrail		7	7	
Length (m)	38.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN ENDS			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 3 Spans, Lengths(m): 12.2-16.5-12.2, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	0.3 m2 debonded area at South abut
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			8	8	
Temperature (deg. C)		12			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
75	N. Abut				
70	S. abut				
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Numerous cracks, patched.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			7	7	1 post near NE has nuts 25 mm above base plate- bolts not threaded. 5% superficial corrosion.
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	4	
(Type : PAINT)					
Sidewalk			X	X	
Girders			5	5	Narrow to med shear cracking starting @ West exterior girder @ North pier Flexure cracks at all girders
Diaphragms/Cross Frame			6	6	
Bearings			6	6	All abut bearings are overextended 25mm-abut brgs new coating at Pier 1
Temperature (deg. C)		12			
(Expansion Type : ROCKER BEARING)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Lengths(m): 12.2-16.5-12.2, A-Ident Number:)				
Deck Underside		5	5	Old forms still in place. Many transverse & long. Narrow cracks. Stains at deck underside @ SE. 1.5 m long x 2 mm wide crack @ vertical side of deck at North pier westside.
Stains (Percent Area)	2			
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				
Bearing Seats		6	6	
Backwalls/Breastwalls		5	5	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	7	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

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							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	68.3/66.8	Est. Repl. Yr	2025	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	02-Jul-2013		Previous Inspection Date	27-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							