

Bridge Inspection										
Bridge File Number	09591 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1972/1972				Lot No.	2				
Bridge or Town Name	BARRHEAD				Inspector Name	Eric Carcoux				
Located Over	PADDLE RIVER, 8.11.84.30, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	764:02 C1 25.746				Assistant Name	Wade Nanninga				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	07-Sep-2011				
Legal Land Location	NW SEC 27 TWP 58 RGE 5 W5M				Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-114:40:17, 54:02:56				Data Entry Date	30-Sep-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA10				Review Date	26-Sep-2011				
Clear Roadway/Skew	8.2 / 15 deg. (RHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	280 / 2010 (A)				Dept. Review Date	05-Oct-2011				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	35									
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									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w. Fibre optic West r/w.				Gas					
Power	2 line east r/w.				Municipal					
Others	Pipeline approx 75 m north.				Problem (Y/N)		No			
Remarks	Stream gauging station SE with wire/conduit attached to East railing to middle of S2.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Field/dike access all corners.				
Vertical Alignment			7	7					
Roadway Width (m)	8.500				Dip @ S approach				
Approach Bump			6	5					
Guardrail (Y/N)	Yes				Creased @ NW corner				
Guardrail			X	5	Type VI radius				
Length (m)	8.000								
Current Standard (Y/N)	No								
Termination Type	Bulb								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PM, 3 Spans, Lengths(m): 12.2-13.7-10.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	5	Cracks @ pier joints
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Pier joints repaired & paved over
Temperature (deg. C)		15			
(Expansion Type :)					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)		Gap Location			
Deck Drainage			7	5	No deck drains.
Drains Clogged (Y/N)					
Curbs/Median			5	5	Light scaling & plow scrapes.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			8	8	Double layer with TT post blocked out from original posts - photo. With TT blocking.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			6	6	S3G2 U/S with corrosion staining & honeycomb. Spot corrosion staining on exterior girders
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
(Number Of Girders : 30)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 12.2-13.7-10.7, A-Ident Number:)				
Diaphragms/Cross Frame		X	N	
Bearings		7	7	
Temperature (deg. C)	25			
(Expansion Type : NEOPRENE STRIP BEARING)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		X	N	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		4	4	Loss of material @ abutments
Scour/Erosion		4	4	Fill settled / washed away 300mm each abutment
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		4	5	Small vertical crack with corrosion @ P2 North face near East end
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Top coat peeling locally
(Colour Description : RED)				
(Colour Code : 21310)				
Pier Stability		8	8	
Scour		4	4	Minor scouring @ P1

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Drift under South span
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Some bends U/S & D/S.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	4	Sluffing banks.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection (Type : NONE; NONE)		7	4	Some rock along toe of South headslope. Loss of fill at abutments
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Repair/fill void under abutment seat/cap.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2013	Paint pier columns @ next major rehab.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	63.4/61.8	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Watch P2 North face cracking/delam		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	07-Dec-2014		Previous Inspection Date	09-May-2008			
Inspection Cycle (Default) (months)	39						
Comment							