

Bridge Inspection										
Bridge File Number	76057 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1968/1968				Lot No.	2				
Bridge or Town Name	PEACE RIVER				Inspector Name	Brian Pientsch				
Located Over	25141 RW-MAIN				Inspector Class	BR CLS A				
Located On	2:60 L1 37.878;2:60 R1 37.879				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	14-Dec-2012				
Legal Land Location	SW SEC 32 TWP 83 RGE 21 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:17:17, 56:14:19				Data Entry Date	24-Jan-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04				Review Date	08-Jan-2013				
Clear Roadway/Skew	20.7 /				Dept. Reviewer Name	David Morrison				
AADT/Year	5,140 / 2011 (A)				Dept. Review Date	19-Mar-2013				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	5									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 25141 C1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	No	Lane	EB	On Bridge (m)	5.3	In Advance (Y/N)	No
Remarks												
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	At Bridge (Y/N)	No		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No		
Remarks			Not required									
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		SPEED LIMIT SIGNS, 80 KM/HR.										

Utilities (Located at)												
Utility Attachments												
Telephone	Box North of pier 2					Gas						
Power	Cable from post on pier 2.					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road												
			Last	Now	Explanation of Condition							
Horizontal Alignment			6	6	Gradual curve starts immediately W. of bridge. Approach ramps on & off hwy.							
Vertical Alignment			6	6								
Roadway Width (m)		19.000										
Approach Bump			5	5								
Guardrail (Y/N)		Yes		1 broken post and 3 deformed rail sections NE corner.-01-Sep-2011 Snow covered.								
Guardrail			3									
Length (m)		16.000										
Current Standard (Y/N)		Yes										
Termination Type		TURNED DOWN										
Drainage			4	N	(Ice on south abutment seat and headslope indicates ponding.02-Mar-08) Drain troughs installed. 500mm deep gully at NW corner. -01-Sep-2011 Snow covered							

Approach Road						
			Last	Now	Explanation of Condition	
Approach Road General Rating			6	6		
Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 12.2-24.4-12.2, A-Ident Number: A0585-01)						
Special Features						
Special Feature				4	Semi-integral abut. knee braces - Bolted to girder bottom flange and abut. seats. Double nut missing at A2G9. Brace to girder bolt loose A1G1.	
(Type :)						
Special Feature				X		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
		N (%)	1 (%)	2 (%)	3 (%)	Partially snow & slush covered.
Last						
Now		60.0				
Wearing Surface			7	N		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			4	N	Water drains on to A1.2-01-Sep-2011 Ice covered	
Temperature (deg. C)		-5				
(Expansion Type : GLAND (SILICON SEAL))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
60		N. abut				
65		S. abut				
Deck Drainage			5	5	No drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			3	N	Scaling and abrasion exposing waterstop South curb.-01-Sep-2011 Snow covered	
(Curb Type : Standard)						
Scaling (Percent Area)		25				
Bridge Rail			3	N	Collision damage panel 2 span1 North rail.-photoSmall dents and scrapes on post 3 span1 North rail. Scrapes in galvanizing on post 3 span1 North rail.-01-Sep-2011 Snow covered	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			6	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			6	N		
(Type : GALVANIZED)						
Sidewalk			X	X		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 12.2-24.4-12.2, A-Ident Number: A0585-01)					
Girder/Beam					
Cover Plate		7	7		
Flange		5	5		
Web		7	7		
Stiffeners		7	7		
Splice		7	7		
Weld		7	7		
Diaphragms/Cross Frame		7	7		
Paint Condition		4	5	Peeling 1%.	
(Colour Description : YELLOW)					
(Colour Code : 13538)		Span 2 G10 heat straightening repair-touchup.			
Touchup Required (Y/N)	Yes				
Bearings		2	4	Several grout pads cracked and delaminated . Rust & peeling paint on bearing plates. Bearings fully expanded and leaning. Missing nut S3G5 N abutment (photo).	
Temperature (deg. C)	15				
(Expansion Type : SLIDING PLATE)					
(Fixed Type : SLIDING PLATE)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	No				
Deck Underside		4	4	Delam with rust S2G4-SE,S2G5-6, and honeycombing above abutment 2.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		2	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		4	4	Scaling, horizontal cks with rust stains. Cracks at knee brace location. Spall with exposed rebar N corner abut 1.	
(Type : CONCRETE)					
Backwalls/Breastwalls		4	4	Scaling, horizontal cks with rust stains due to joints allowing water to drain on abuts. (photo).	
Wingwalls		5	4	SW wing map crack and spalling.	
Piles		N	N		
Paint/Coating		X	X		
Abutment Stability		5	5		
Scour/Erosion		X	X		
Piers/Bents					
(Type : PIER-COLUMN)		Cracking with rust staining P1 East end.			
Bearing Seats/Caps		5	5		
(Type : CONCRETE)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	7	Fibre wrapped. (grey)
(Colour Description :)				
(Colour Code :)				
Pier Stability		4	5	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	
Traffic Safety Features		6	6	
Type	GUARDRAIL			
Slope Protection		4	N	Snow covered. (25mm wide crack & seperation on north headslope. Concrete sloped to N. abut. 16-Jun-09)
(Type : CONCRETE)				
Bank Stability		5	5	
Drainage		7	7	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace rail section NW.-01-Sep-2011 Snow covered					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace 1 post and 3 guardrail sections.-01-Sep-2011 Snow covered					
OTHER ACTION	2013	Install missing nut on knee brace & torque Span 3 G!. Knee brace to girder loose bolt.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/44.4	Sufficiency Rating (Last/Now) (%)	48.1/52.5	Est. Repl. Yr	2034	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	MOnitor bearings and grout pads.		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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	14-Sep-2014		Previous Inspection Date	01-Sep-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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