

Bridge Inspection											
Bridge File Number	76061 -1 Bridge					Form Type	SG				
Year Built/Year Supstr	1981/1981					Lot No.	2				
Bridge or Town Name	PEACE RIVER					Inspector Name	Brian Pientsch				
Located Over	684:02 C1 31.261;CNR					Inspector Class	BR CLS A				
Located On	2:62 R1 1.282;2:62 L1 1.282					Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year						Assistant Class	BR CLS B				
Navigabil. Cl./Year						Inspection Date	06-Dec-2011				
Legal Land Location	SW SEC 31 TWP 83 RGE 21 W5M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:19:09, 56:14:13					Data Entry Date	09-Jan-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04					Review Date	20-Dec-2011				
Clear Roadway/Skew	20.8 / 9 deg. (RHF)					Dept. Reviewer Name	David Morrison				
AADT/Year	12,680 / 2011 (A)					Dept. Review Date	05-Apr-2012				
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:	MS230									----> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)				UNDER: 684 C1 8.4m								
Posted Vertical Clearance (Y/N)				Yes								
Posted:	Lane	NB	On Bridge (m)	8.4	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	8.4	In Advance (Y/N)	No
Remarks												
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				Not Req'								

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

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power	Buried power.					Municipal						
Others	Street Lighting both sides					Problem (Y/N)	No					
Remarks												

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	Merging traffic. Est 7% grade.	
Vertical Alignment		5	5		
Roadway Width (m)	21.900		EBL 7.4m WBL 13.5m.		
Approach Bump	4	4	Potholes in both approaches - both directions. 30mm low at east approach. 0.6x0.8 NW end WBL		
Guardrail (Y/N)	Yes		NW corner		
Guardrail	3	7			
Length (m)	15.200				
Current Standard (Y/N)	Yes				
Termination Type	TURNED DOWN				

Approach Road					
		Last	Now	Explanation of Condition	
Drainage		4	3	Down trough at South West spalled. Snow/ice covered. Hole at South East corner (200dx100longx75wide) Erosion gully NE and SW.-photo	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 7 Spans, Lengths(m): 14-16.5-16.5-16.5-16.5-16.5-12, A-Ident Number: A0881-01</b> )					
Special Features					
Special Feature			7		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partly gravel/sand covered.
<b>Last</b>					
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface		5	5		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		6	6		
Temperature (deg. C)		-3			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
95		E. abut			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	Rust staining on outside curb faces at rail posts. Center median spaled at several locations. Spall at underside of north curb of Sp. 2. Exposed waterstop at Sp. 4 north side and at NE approach curbs. Isolated spalls at both curbs.-photos	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		3			
Bridge Rail		3	6	Insuffecient thread at north rail-west end. Six grout pads broken and deteriorated. Rusting at post bases.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		3	4		
(Type : <b>GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		4	4		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 7 Spans, Lengths(m): 14-16.5-16.5-16.5-16.5-16.5-12, A-Ident Number: A0881-01</b> )					
<b>Girder/Beam</b>					
Cover Plate		X	X		
Flange		7	7		
Web		7	7		
Stiffeners		7	7		
Splice		7	7		
Weld		7	7		
Diaphragms/Cross Frame		4	7	Wide checks in North diaphragm.	
Paint Condition		4	X	weathering steel - girders are painted at end 2 meters only.	
(Colour Description : <b>BROWN</b> )					
(Colour Code : <b>30252</b> )					
Touchup Required (Y/N)		No			
Bearings		3	4	All anchor bolts at E. abut broke off. Shear blocks in place.	
Temperature (deg. C)		-3			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )		Viewed pier bearings with binoculars.			
(Fixed Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )		Bracket bolts not tight.-photo			
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside		4	4	Staining on span 6 & 7 through lateral deck cks and between G5 + G6 P3 span 3. Spall at 3 locations. Span 2 N side. Spalls delaminations and rust staining on cantiliver span 2.	
Stains (Percent Area)		5			
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No	East end of bridge moving north east		
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>		<b>3</b>	<b>4</b>		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
Bearing Seats/Caps		3	4	3 spalls abut 1 at ground level. Piles exposed and scaling, flaking, rust. Spall @ SE knee brace abut 2 with wide deep cracks and delamination-50%.-photo Large spall/void adjacent to North girder bearing on abut 1.	
(Type : <b>CONCRETE</b> )					
Backwalls/Breastwalls		5	5		
Wingwalls		5	4	NW wingwall spalling	
Piles		N	N		
Paint/Coating		4	5	Pigmented sealer peeling.	
Abutment Stability		4	4	3 spalls abut 1 at pile locations indicate abut seat rotating.	
Scour/Erosion		X	4	Abut 1 fill settled under abut seat exposing piles.	
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
Bearing Seats/Caps		4	5		
(Type : <b>CONCRETE</b> )					
(Total Number of Bearing Piles : <b>4:4:4:4:4</b> )					
Pier Shaft/Piles		7	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Pier #1 & 2 rust started at ground line. Peeling on pier caps.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>4</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	Curve at north end - hill at south end.
Traffic Safety Features		4	6	
Type	GUARDRAIL			
Slope Protection		4	4	Settled 330 mm away from Pier 6 shaft. Stub wall is tipped 100 mm.
(Type : <b>CONCRETE</b> )				
Bank Stability		5	5	
Drainage		5	5	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</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	2012	Patch curb spalls					
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	2012	Repair drain trough spall and erosion gullies. Improve drainage at all 4 corners.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>40.7/46.0</b>	Est. Repl. Yr	2041	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor movement of both abutments. Monitor bridgerail/curb rust stains.		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	06-Sep-2013	Previous Inspection Date	01-Sep-2011
Inspection Cycle (Default) (months)	21		
Comment			