

Bridge Inspection									
Bridge File Number	76056 -1 Bridge					Form Type	PSR		
Year Built/Year Supstr	1968/1968					Lot No.	2		
Bridge or Town Name	PEACE RIVER					Inspector Name	Brian Pientsch		
Located Over	MUNICIPAL					Inspector Class	BR CLS A		
Located On	2:60 C1 37.138					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	14-Dec-2012		
Legal Land Location	NW SEC 29 TWP 83 RGE 21 W5M					Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:16:60, 56:13:58					Data Entry Date	23-Jan-2013		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA04					Review Date	08-Jan-2013		
Clear Roadway/Skew	15.5 / -8 deg. (LHF)					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		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)				UNDER: MUNICIPAL 5.0m								
Posted Vertical Clearance (Y/N)				Yes								
Posted:	Lane	EB	On Bridge (m)	5.0	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.1	In Advance (Y/N)	No
Remarks		EB sign damaged, writing not clear.										
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)		No										
Remarks		Not required.										
Other Sign Types		Town of Peace River Information signs Northbound.										

Utilities (Located at)									
Utility Attachments									
Telephone	West row				Gas				
Power					Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road					
			Last	Now	Explanation of Condition
Horizontal Alignment			5	5	Curves on both approaches. No passing WBL. Hill on east approach (7% grades). Three lanes (one passing lane).
Vertical Alignment			4	4	
Roadway Width (m)	16.000				Asphalt pot holing along S. abut. joint.-01-Sep-2011
Approach Bump			4	N	
Guardrail (Y/N)	Yes				Accident damage SE corner, broken posts, NE 1 broken post with 2 deformed rail sections.-01-Sep-2011
Guardrail			3	N	
Length (m)	30.400				Snow covered
Current Standard (Y/N)	No				
Termination Type	TURNED DOWN				
Drainage			4	N	6x3x1.5m erosion gully 10m East of the bridge on the North side of hwy.-01-Sep-2011 Snow covered

Approach Road					
		Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>		4	4		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number: )</b>					
Special Features					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Slush covered
<b>Last</b>					
<b>Now</b>	100.0				
Wearing Surface			6	N	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			5	3	KOCH JOINTS OVER PIERS & ABUTMENTS. 50% slush covered. West abutment joint potholed and recently patched with ACP.-photo Pier 1 joint leaking and water running down side of pier cap.-photo
Temperature (deg. C)		-4			
(Expansion Type : )					
(Fixed Type : <b>THERMOPLASTIC POLYMER</b> )					
Gap Size (mm)		Gap Location			
Deck Drainage			5	5	No drains.
Drains Clogged (Y/N)					
Curbs/Median			3	N	NE curb fascia deterioration - 1mx.2m spall.-16-Jun-2009 100x50mm spall extending into girder curb. Void- span 1. North curb wide crack at pier and NE.01-Sep-2011  Snow covered Snow covered.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			3	N	Missing 5 splice bolts and rusted through at south east. Single layer flexbeam. -01-Sep-2011  Extensive perforations in rail-photo-01-Sep-2011  Snow covered
(Type : <b>GALVANIZED STEEL W-BEAM</b> )					
Bridge Rail Posts			6	N	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			3	N	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : <b>PM, 3 Spans, Lengths(m): 16.8-16.8-16.8, A-Ident Number: )</b>						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	All girders undersides voated in layer of frost - no cracks or rust stains were visible due to frost.	
Last	0	0	1	29		
Now	100		1			
Girders				2	2	30/54 girders have cracks + 14/54 with rust stains.S3G12 near midspan has a wide longitudinal crack with rust staining.-01-Sep-2011  S1G1 curb girder facia cracked with extensive rust staining.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
(Number Of Girders : <b>54</b> )						
Diaphragms/Cross Frame				X	X	S3G11,13 have spalls at abutment 2 that extend into bearing areas.-photo
Bearings				7	7	
Temperature (deg. C)		-4				
(Expansion Type : <b>NEOPRENE STRIP BEARING</b> )						
(Fixed Type : <b>NEOPRENE STRIP BEARING</b> )						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				3	N	14/54 girders have rust stains.-01-Sep-2011
Stains (Percent Area)		1				Girder undersides coated in frost.
Span Alignment Problems						
Vertical (Y/N)		No				Girders stepped 30mm at pier 1.-photo
Horizontal (Y/N)		Yes				
Superstructure General Rating				2	2	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
Bearing Seats/Caps				4	4	West abutment has a wide horizontal crack and random vertical cracks.-photo
(Type : <b>CONCRETE</b> )						
Backwalls/Breastwalls				N	N	
Wingwalls				7	N	Snow covered
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				X	X	
Piers/Bents						
(Type : <b>PIER-COLUMN</b> )						Hairline map cracking in patches with efflorescence and rust stains. Pier 1 has rust staining, cracks and delaminations.-photo Pier 2 has cracks and rust staining on old patches.
Bearing Seats/Caps				4	4	
(Type : <b>CONCRETE</b> )						
(Total Number of Bearing Piles : <b>4:4</b> )						Fibre glass wrapped with steel sleeves at the tops.
Pier Shaft/Piles				7	7	
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		3	N	Sealer peeling off FRP rap-photo Pigmented sealer.-01-Sep-2011 frost Grey
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		3	3	Sharp hor & vert curves @ both approaches.
Traffic Safety Features		3	3	Gaurdrail installed to low. -photo
Type	GUARDRAIL			
Slope Protection		5	5	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		5	5	Vertical cracks on West slope paving.01-Sep-2011
<b>Grade Separation General Rating</b>		<b>3</b>	<b>3</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace corroding rail sections, 2 guardrail posts, 2 deformed guardrail sections.-01-Sep-2011					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch curbs-01-Sep-2011- snow covered					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair joints.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair erosion at NE corner.-01-Sep-2011- snow covered					
OTHER ACTION	2013	Replace EB V.V. sign on bridge.					
OTHER ACTION	2013	Install advance warning signs.					
OTHER ACTION	2013	Raise underpass guardrail to correct height.					
OTHER ACTION	2013	Repaint columns over FRP					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>39.4/38.8</b>	Est. Repl. Yr	2021	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier 1 abut. cap and girder cracks yearly. Low Rating Advisory sent to Alan Saunders and Dave Morrison 21-Dec-2012		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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