

Bridge Inspection											
Bridge File Number	07421 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1961/1995				Lot No.	2					
Bridge or Town Name	WEMBLEY				Inspector Name	Russel Vanderschaaf					
Located Over	BEAR RIVER, 8.10.58.18.2, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	724:04 C1 21.248				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	11-May-2010					
Legal Land Location	SW SEC 34 TWP 73 RGE 8 W6M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-119:09:14, 55:21:40				Data Entry Date	21-Jun-2010					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA05				Review Date	07-Jun-2010					
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Steve Pasquan					
AADT/Year	720 / 2009 (A)				Dept. Review Date	10-Sep-2010					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> 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				Gas					
Power	EAST SIDE-2 wire.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	sag curve. No passing.				
Vertical Alignment			6	6					
Roadway Width (m)	8.200		50mmDx170mmWx500mmL pot hole North approach.-photo						
Approach Bump			5	5					
Guardrail (Y/N)			Yes		Approached settling 25mm.				
Guardrail			N	6					
Length (m)			11.400						
Current Standard (Y/N)			No						
Termination Type			TURNED DOWN ENDS						
Drainage			8	8					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SC, 3 Spans, Lengths(m): 10.7-12.2-10.7, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface			4	4	10-20mm cracks, aligator pattern.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			4	6	Pot hole in wheel path over pier 2.
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			4	4	No drains Water drains onto caps and between girders.
Drains Clogged (Y/N)					
Curbs/Median			N	4	S1G9 has a 250x100x200mm spall at P1-photo.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail			4	7	
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts			N	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>				2	
<b>Now</b>	0	0	0	2	
Girders			3	3	S1G4 has a HL 1.2 from A1 longitudinal crack 146mm long with rust staining, suspected from pre stressing strand, 1.5m from A1, suspect a rebar tie 110mm long. S1G3 has small random rust spots typ S2,G3,4,6,7,8,9, S3,G1,3,4,5,8,9.
Last Complete Inspection Date		11-May-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>27</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		Yes			S2 20mm higher then S1 on east end -photo. TYP over pier 2.
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>5:5</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>300</b> )						
(Width(mm) : <b>300</b> )						
Backwalls/Breastwalls				4	4	
Greatest Height (m)		1.40		East side of North abutment has gap in sheeting with infiltration.-photo		
Extended backwall planking. West side South abut. gap in sheeting with infiltration-photo						
Wingwalls				N	X	
(Total Number of Bearing Piles : <b>11:11</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				6	4	
Paint/Coating				X	X	
Abutment Stability				8	6	
Scour/Erosion				8	8	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>6:6</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				4 pieces sheeting scraped center pier		
<b>Now</b>				Bottom planks not properly fastened, South pier.-photo		
Bearing Seats/Caps/Corbels				8	8	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>300</b> )						
(Width(mm) : <b>300</b> )						
(Total Number of Bearing Piles : <b>22:22</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				Covered by sheeting.		
<b>Now</b>	35	0	0	2 additional bearin piles on W and E sides of piers.		
Pier Shaft/Piles				8	7	
Greatest Height (m)		6.00				
Bracing/Struts/Sheathing				6	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	7	
Scour		8	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		5	5	Vertical banks upstream & downstream.
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection		8	7	and asphalt
(Type : <b>CONCRETE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2010	Repair pothole on North approach.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2010	Repair spall S1G9, S1G4					
OTHER ACTION	2010	Repair South pier sheeting.					
OTHER ACTION	2010	Band S1P1,P8,P11 piles.					
OTHER ACTION	2010	Repair backwalls.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>61.7/60.3</b>	Est. Repl. Yr	2053	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Jack hammer S1G4 rusting crack and repair. Monitor vertical alignment.		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	11-Aug-2013		Previous Inspection Date	31-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							