

Bridge Inspection									
Bridge File Number	73277 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	CAMBRIA BRDG				Inspector Name	Owen Salava			
Located Over	RED DEER RIVER, 3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	10:08 C1 10.244				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	01-Nov-2011			
Legal Land Location	NE SEC 15 TWP 28 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:35:31, 51:23:55				Data Entry Date	29-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA21				Review Date	14-Nov-2011			
Clear Roadway/Skew	8.5 / 20 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,000 / 2011 (A)				Dept. Review Date	02-Dec-2011			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	10								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> Primary Span		

Posting Information									
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 required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	NW too low.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments	FIBRE OPTIC-Telus - Agreement on file								
Telephone	Under girder North side.				Gas				
Power	150m West.				Municipal				
Others					Problem (Y/N)	Yes			
Remarks	(Conduit has corroded through at NW corner.)								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		4	5	Curves at east within 70m.					
Vertical Alignment		7	7						
Roadway Width (m)	8.700								
Approach Bump		6	6						
Guardrail (Y/N)	Yes	Not thrie beam, insufficient posts.							
Guardrail		5	7						
Length (m)	83.600								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage		5	4	Concrete drain trough cracked & spalled - typical.					
<b>Approach Road General Rating</b>		<b>4</b>	<b>5</b>						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 5 Spans, Lengths(m): 33.5-33.5-33.5-33.5-33.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7	End of 1 support notched into East breastwall. Underslung Beams.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Chipsealed. Unable to verify cracks.
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			6	7	(FRSFC O/L. 20/Feb/2009) (Random transverse/longitudinal cracking. Small rough areas on surface. 30/05/2005)
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 110)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	6	Abutment joints are fingers. NE concrete drain broken and undermined - photos. SE drain broken.
Temperature (deg. C)		0			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
90		Abut 2 West			
33		Pier 4			
30		Pier 3			
42		Pier 2			
40		Pier 1			
97		Abut 1 East			
Deck Drainage			4	4	Spall at several weep tube locations. Abut drains discharge short of trough drains due to trough damage.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Local shallow delams in North curb west approach and SP2 - photo.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			5	8	Square tube posts. 8 A/B each side with insufficient thread, several are welded.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	7		
(Type : GALVANIZED)					
Sidewalk			4	5	Transverse construction joint in sidewalk allowing staining on side of girder. (Bird bath @ various locations - photo. Sidewalk with waves on outside edge. 11Mar2010). Small deck delam @ SW & SE approaches.
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	12	0	0	0	
<b>Now</b>	12	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 5 Spans, Lengths(m): 33.5-33.5-33.5-33.5-33.5, A-Ident Number: )				
Girders		4	4	Typical VF type cracking. Narrow cracking in North leg of S5G2 at second undersling support, marked & dated - no change. Some deck spalling around curb weep drains - photo.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	5			
(Number Of Girders : 30)				
Diaphragms/Cross Frame		4	5	
Bearings		6	6	
Temperature (deg. C)	0			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Small spalls at several weep tube locations.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		4	4	1m long delam crack at west abutment under G2.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	7	
Piles		N	N	Buried.
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	6	
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				Vertical cracks & staining present. Cracks appear to have been sealed.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		7	6	Silver.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : <b>RIP RAP; CONCRETE</b> )				
Guidebank/Spurs		7	7	
Adequacy of Opening		8	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Patch local shallow spalls on curb/sidewalk and seal.					
PATCH DECK	2012	Patch spalls in curb girders and extend weep tube.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Extend PVC drains to drain down concrete drain troughs (1m) or repair troughs.					
OTHER ACTION	2012	Patch SW abutment crack with epoxy.					
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>48.8/55.1</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No assessment on file - 07Mar2000.		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	Wayne Cappellani		Previous Assistant's Name	Chris Black			
Next Inspection Date	01-Aug-2013		Previous Inspection Date	28-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							