

Bridge Inspection										
Bridge File Number	76669 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1968/1968				Lot No.	2				
Bridge or Town Name	GRANDE CACHE				Inspector Name	Brian Pientsch				
Located Over	CNR				Inspector Class	BR CLS A				
Located On	40:34 C1 20.771				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	22-Aug-2012				
Legal Land Location	SW SEC 16 TWP 57 RGE 7 W6M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-118:58:45, 53:55:36				Data Entry Date	23-Oct-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA05				Review Date	22-Oct-2012				
Clear Roadway/Skew	9.1 / -45 deg. (LHF)				Dept. Reviewer Name	David Morrison				
AADT/Year	1,590 / 2011 (A)				Dept. Review Date	15-Jan-2013				
Road Classification	RAU-209-110				Follow-Up By					
Detour Length (km)	75									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20				----> Primary Span					

**Posting Information**

Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
No												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks		NOT REQUIRED.										

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		NOT REQUIRED											

Hazard Marker At Bridge (Y/N)		Yes											
Remarks													
Other Sign Types		INFORMATION											

**Utilities (Located at)**

Utility Attachments		TELEPHONE UTILITIES-PHONE LINE											
Telephone	South curb - 2 conduits.				Gas								
Power	North r/w - 4 wires.				Municipal								
Others					Problem (Y/N)		No						
Remarks													

**Approach Road**

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	No passing either directions. On a crest curve with limited sight distance.
Vertical Alignment		5	5	
Roadway Width (m)	8.000			Not attached to bridge. Insufficient posts (photo).
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		3	4	
Length (m)	45.600			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	

Approach Road						
			Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>			5	5		
Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Primary Span : <b>PM, 3 Spans, Lengths(m): 16.8-13.7-13.7, A-Ident Number: )</b>						
Special Features						
Special Feature				X		
(Type : )						
Special Feature				X		
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
			N (%)	1 (%)	2 (%)	3 (%)
<b>Last</b>			85	0	0	0
<b>Now</b>						
Wearing Surface			7	4	S1G8 has rust staining and efflorescence from in between girders NE corner over pier 1 indicating seepage through grout key and candy cane bars rusting.	
(Material Type : <b>CONCRETE</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			6	4	Missing 1 snowplow guard at pier 2, and 2 at abut 2. Abut 1 rattles, probably due to snow plow guards.	
Temperature (deg. C)		20				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
78		W. abut				
82		W. pier				
77		E. pier				
80		E. abut				
Deck Drainage			7	X		
Drains Clogged (Y/N)		No				
Curbs/Median			N	3	Spall (bad repair) span 3 Eastside near pier 2. 0.3x0.3-photo	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		2				
Bridge Rail			7	7	Single layer. Post on NW & SW corner spalled at base.-photo	
(Type : <b>GALVANIZED STEEL FLEX BEAM;FLEX BEAM</b> )						
Bridge Rail Posts		5	3			
(Type : <b>GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating		7	7			
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
			N (count)	1 (count)	2 (count)	3 (count)
<b>Last</b>			0	0	0	0
<b>Now</b>						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 16.8-13.7-13.7, A-Ident Number: )				
Girders		5	5	6/33 girders have random rust spots about 10 mm dia on underside (all are curbs or 1st interiors). S3G1 Has a surface spall SW corner 75mm.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 33)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	Not visible.
Temperature (deg. C)	20			
(Expansion Type : )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	S1G11 3 rust stains near center of girder S. side likely due to tie wires.
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			The curb units are not aligned over pier 1, South side.
Horizontal (Y/N)	Yes			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	Minor rust stains on vertical faces.
(Type : CONCRETE)				
Backwalls/Breastwalls		N	N	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				Minor rust stains on vertical face.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		6	6	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		8	8	
(Type : <b>RIP RAP; RIP RAP</b> )				
Bank Stability		8	8	
Drainage		8	8	
<b>Grade Separation General Rating</b>		<b>8</b>	<b>8</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							
PATCH DECK							
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	2013	Replace missing snow plow guards.					
OTHER ACTION	2013	Repair spalls on curb.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>67.8/67.8</b>	Est. Repl. Yr	2028	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor grout key leakage. Monitor 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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	22-May-2014		Previous Inspection Date	18-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							