

Bridge Inspection									
Bridge File Number	80757 -1 Bridge					Form Type	SG		
Year Built/Year Supstr	1985/1985					Lot No.	2		
Bridge or Town Name	GRANDE CACHE					Inspector Name	Brian Pientsch		
Located Over	40:36 C1 15.799					Inspector Class	BR CLS A		
Located On	LOCAL ROAD					Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year						Assistant Class	BR CLS B		
Navigabil. Cl./Year						Inspection Date	23-Aug-2012		
Legal Land Location	SE SEC 15 TWP 58 RGE 8 W6M					Data Entry By	Theresa Lacusta		
Longitude, Latitude	-119:05:53, 54:00:41					Data Entry Date	07-Nov-2012		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA05					Review Date	22-Oct-2012		
Clear Roadway/Skew	6.1 / 42 deg. (RHF)					Dept. Reviewer Name	David Morrison		
AADT/Year	330 / 2010 (E)					Dept. Review Date	15-Jan-2013		
Road Classification						Follow-Up By			
Detour Length (km)	999								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 40 C1 6.2m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)	5.9	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.9	In Advance (Y/N)	Yes
Remarks	SB & NB in advance says 6.2m, measured 6.4m-19-Nov-2010											
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 req'd.											

Hazard Marker At Bridge (Y/N)	No											
Remarks												
Other Sign Types	Max 50 - NB, Info											

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power						Municipal						
Others						Problem (Y/N)	No					
Remarks	Conduit detached @ SW curb/abut - can't see if there are utilities in the ducts.											

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	6	Sharp curves at both ends of bridge. Posted for max 50kph and adequate for private use. Bridge and approach road on grade.
Vertical Alignment		6	6	
Roadway Width (m)	8.000			Approach slabs settled.Moderate rutting/washboard at both approaches.
Approach Bump		4	6	
Guardrail (Y/N)	Yes			Collision damage SW rail, 2 bent rail sections.
Guardrail		4	3	
Length (m)	23.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			

Approach Road					
			Last	Now	Explanation of Condition
Drainage			4	4	Void under NE abut 0.3D at SW 0.2m D
Approach Road General Rating			5	6	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 40-30, A-Ident Number: A1013-01)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Coal/gravel/mud covered.
Last	50	0	0	0	
Now	100.0	0.0	0.0	0.0	
Wearing Surface			5	N	Random tranverse cracks narrow width.25-May-2007 Mud and coal covered.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			4	7	Measurements approx due to mud and coal buildup in joints.
Temperature (deg. C)		20			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
110		W. abut Finger plates			
120		E. abut Armoured gland			
Deck Drainage			5	6	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Exterior fascia broken @ NE corner. NE cover plate bent.-photo
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	N	Covered in mud and soot.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	N	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	N	
(Type : GALVANIZED)					
Sidewalk			X	X	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 2 Spans, Lengths(m): 40-30, A-Ident Number: A1013-01)					
Girder/Beam					
Cover Plate		X	X		
Flange		8	8		
Web		8	8		
Stiffeners		8	8		
Splice		8	8		
Weld		8	8		
Diaphragms/Cross Frame		8	8		
Paint Condition		8	8		
(Colour Description : RED)					
(Colour Code : 21310)					
Touchup Required (Y/N)	No				
Bearings		4	4	Anchor bolts on both abutments are out of plumb 5cm. grout pads beginning to crack. Some anchor bolts on the North side are leaning.	
Temperature (deg. C)	15				
(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		5	5	Transverse narrow cracks with leaching every est 1.5m. North span.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No			Bridge moved West 20mm at S. abut.-photo	
Horizontal (Y/N)	Yes				
Superstructure General Rating		4	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		7	7		
Wingwalls		5	5	Crack in SE wingwall 0.8m long.-Typical cracking all wingwalls.	
Piles		N	N	Buried	
Paint/Coating		5	6		
Abutment Stability		4	4	Concrete slope protection has settled 240mm on S. abut. and 200mm on N. abut.	
Scour/Erosion		3	X		
Piers/Bents					
(Type : PIER-COLUMN)					
Bearing Seats/Caps		6	7	5 columns diagonal cracks @ NW corner.	
(Type : CONCRETE)					
(Total Number of Bearing Piles : 5)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		5	6		
Nose Plate		X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		5	5	Paint 30% peeling on pier cap/ spot corrosion.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Horizontal curves on a est 5% vertical grade.
Traffic Safety Features		6	6	N. shoulder only
Type	GUARDRAIL			
Slope Protection		4	5	Settled 240 mm on south abut. and 200 on north abut. South moved out 100mm.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		5	5	
Grade Separation General Rating		6	5	

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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Corner plate @ NE.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Repair voids at abutments.					
OTHER ACTION	2012	Repair guardrail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	40.6/39.1	Est. Repl. Yr	2033	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor bearings and concrete slope protection movement.		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	Dave Lam	Previous Assistant's Name	
Next Inspection Date	23-May-2014	Previous Inspection Date	25-Apr-2012
Inspection Cycle (Default) (months)	21		
Comment			