Bridge Inspection

Bridge File Number	09301 -1 Bridge	Form Type	PCS
Year Built/Year Supstr	1967/1994	Lot No.	2
		Inspector Name	Brian Pientsch
Bridge or Town Name	GROUARD	Inspector Class	BR CLS A
Located Over	TRIBUTARY TO UTIKUMA RIVER, 8.10.18.22.4.6, WATERCRS-ST	Assistant Name	Clem Guenette
		Assistant Class	
Located On	750:04 C1 27.084	Inspection Date	14-Nov-2012
Water Body Cl./Year		Data Entry By	Theresa Lacusta
Navigabil. Cl./Year		Data Entry Date	09-Jan-2013
Legal Land Location	SW SEC 7 TWP 79 RGE 12 W5M	Reviewer Name	Eric Carcoux
Longitude, Latitude	-115:52:39, 55:49:43	Review Date	08-Jan-2013
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	David Morrison
Contract Main. Area	CMA02	Dept. Review Date	20-Feb-2013
Clear Roadway/Skew	12 /	Follow-Up By	
AADT/Year	480 / 2011 (A)		
Road Classification	RCU-210-110		
Detour Length (km)	999		

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	N r/w boundary	Gas	
Power	1 wire O.H. S r/w	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Limited sight distance to the south.West approx. 150m.
Vertical Alignment		5	6	
Roadway Width (m)	10.000			4 missing posts will bw installed @ corner as per contract 10419 prior ro 15-Jun-2013.
Approach Bump		5	7	
Guardrail (Y/N)	Yes			
Guardrail		4	8	
Length (m)	54.466			
Current Standard (Y/N)	Yes			
Termination Type	TURN DOWN			
Drainage		2	7	
Approach Road General Rating		**2**	**6**	

Superstructure					
Bridge Component			**Last**	**Now**	**Explanation of Condition**
(Primary Span : **SC, 1 Spans, Lengths(m): 8.5, A-Ident Number:**)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	10	
Now					
Wearing Surface			3	8	
(Material Type : **ACP**)					
(Thickness(mm) : **140**)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	7	View prior to installing waterproofing membrane.
Deck Rideability			5	7	
Deck Joints			N	X	
Bump (Y/N)	No				
Deck Drainage			6	7	No deck drains.
Drains Clogged (Y/N)	No				
Curbs/Median			4	4	Curbs to be patched and sealed as per contract 10419 prior to 15-Jun-2013
(Curb Type : **Standard**)					
Scaling (Percent Area)	0				
Bridge Rail			7	9	Double layer
(Type : **THRIE BEAM**)					
Bridge Rail Posts			7	9	
(Type : **GALVANIZED POST STEEL;GALVANIZED POST STEEL**)					
Bridge Rail/Posts Coating			7	9	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			5	5	Narrow longitudinal crack, full length on girder 11.
Last Complete Inspection Date	14-Nov-2012				Spall @ drift pin & side on G6. Crack @ drift pin location on G5. Hairline longitudinal crack on side of G2,G3 & G4.
Cracking (Y/N)	Yes				
Spalling (Percent Area)	0				
Lift or Connector Pocket Grouted (Y/N)	Yes				
(Number Of Girders : **11**)					
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating			**5**	**5**	

Substructure

Bridge Component	Last	Now	Explanation of Condition
Abutments			
(Extended Backwall Piles (Y/N) : **N**)			
(Extended Backwall Piles Spacing(mm) :)			
(Total Number of Caps/Corbels : **1:1**)			HP 310x94 cap
Bearing Seats/Caps/Corbels Detail Ratings			
Bearing Seats/Caps/Corbels	7	9	
(Type : **STEEL**)			
(Depth(mm) : **310**)			
(Width(mm) : **310**)			
Backwalls/Breastwalls	4	9	Vertical sheet piles
Greatest Height (m) : 2.72			
Wingwalls	3	9	
(Total Number of Bearing Piles : **9:9**)			
Piles Detail Ratings			
Piles	3	9	
Paint/Coating	X	9	Galvanized caps & piles.
Abutment Stability	4	8	
Scour/Erosion	3	8	
Piers/Bents			
(Type :)			
(Total Number of Caps/Corbels :)			
Bearing Seats/Caps/Corbels Detail Ratings			
Bearing Seats/Caps/Corbels	X	X	
(Type :)			
(Depth(mm) :)			
(Width(mm) :)			
(Total Number of Bearing Piles :)			
Piles Detail Ratings			
Pier Shaft/Piles	X	X	
Greatest Height (m) :			
Bracing/Struts/Sheathing	7	X	
Nose Plate	X	X	
Paint/Coating	X	X	
(Colour Description :)			
(Colour Code :)			
Pier Stability	X	X	

	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				

	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	8
Now				

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		**3**	**8**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **E**)				
(D/S Direction : **W**)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		3	7	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**3**	**7**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2013	Seal curbs and patch as per contract.				
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	2013	Add missing guardrail posts as per contract.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**44.4/72.2**	**Sufficiency Rating (Last/Now) (%)**	**36.8/70.0**	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)	Yes

Special Comments for Next Inspection		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	Shane Hall	Previous Assistant's Name	Jordan Evans
Next Inspection Date	14-Feb-2016	Previous Inspection Date	24-Feb-2009
Inspection Cycle (Default) (months)	39		
Comment			