Bridge Inspection

Bridge File Number	84053 -1 Bridge	Form Type	SG
Year Built/Year Supstr	1988/1988	Lot No.	2
		Inspector Name	Garry Roberts
Bridge or Town Name	CANMORE	Inspector Class	BR CLS A
Located Over	WATERCOURSE, WATERCRS-NI	Assistant Name	
Located On	TRAIL-PED, ON 50000 FB	Assistant Class	
Water Body Cl./Year		Inspection Date	20-Jul-2012
Navigabil. Cl./Year		Data Entry By	Kelsey Roberts
Legal Land Location	SE SEC 1 TWP 25 RGE 11 W5M	Data Entry Date	27-Aug-2012
Longitude, Latitude	-115:23:55, 51:05:58	Reviewer Name	Tom Carey
Road Authority	Alberta Transportation (AIT)	Review Date	27-Jul-2012
Contract Main. Area	UNDEFINED CMA	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	4.6 /	Dept. Review Date	06-Sep-2012
AADT/Year		Follow-Up By	
Road Classification	RLU-208G-60		
Detour Length (km)	1		

Allowable Load (t):	Single		Semi		Train		---> On Critical Spans --->Critical Member
Design Loading:							---> 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	Not req.							

Hazard Marker At Bridge (Y/N)	No
Remarks	Not req.
Other Sign Types	

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	50m South of Jct.#58
Vertical Alignment		5	5	NC 10
Roadway Width (m)	4.000			Gravel path
Approach Bump		6	5	
Guardrail (Y/N)	Yes			Missing and broken post at NE
Guardrail		X	3	
Length (m)	4.000			
Current Standard (Y/N)	Yes			
Termination Type	End Post			
Drainage		7	7	
Approach Road General Rating		**5**	**5**	

Superstructure

Bridge Component	Last	Now	Explanation of Condition
(Primary Span : **RB, 2 Spans, Lengths(m): 14.6-14.6, A-Ident Number:**)			
Special Features			
Special Feature		X	
(Type :)			
Special Feature		X	
(Type :)			
Wearing Surface/Deck Top Detail Ratings			
N (%) 0.0 / 1 (%) 0.0 / 2 (%) 0.0 / 3 (%) 0.0			
Wearing Surface	7	7	75x250 CCA
(Material Type : **COPPER CHROMATE ARSENATE TREATED TIMBER**)			
(Thickness(mm) : **75**)			
Deck Top	7	7	
Deck Rideability	7	7	
Deck Joints	X	7	
Temperature (deg. C) 25			
(Expansion Type : **BUFFER ANGLES**)			
(Fixed Type : **BUFFER ANGLES**)			
Gap Size (mm) / Gap Location			
Deck Drainage	8	X	
Drains Clogged (Y/N)			
Curbs/Median	X	X	
(Curb Type : **Standard**)			
Scaling (Percent Area)			
Bridge Rail	5	6	Minor damage @ SE
(Type : **TREATED TIMBER BRIDGE SOLID BEAM (EX. TIMBER RAILS)**)			
Bridge Rail Posts	7	7	5% failed
(Type : **TREATED TIMBER;TREATED TIMBER**)			
Bridge Rail/Posts Coating	5	5	
(Type : **PAINT**)			
Sidewalk	X	X	
Girder/Beam			
Cover Plate	X	X	
Flange	9	8	
Web	9	8	
Stiffeners	X	X	Spliced over pier
Splice	9	8	
Weld	X	X	
Diaphragms/Cross Frame	9	8	

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **RB, 2 Spans, Lengths(m): 14.6-14.6, A-Ident Number:**)				
Paint Condition		8	7	
(Colour Description : **BROWN**)				
(Colour Code : **30252;**)				
Touchup Required (Y/N)	No			
Bearings		8	7	
Temperature (deg. C)	26			A1 and A2 AT Pier
(Expansion Type : **REINFORCED PAD BEARING**)				
(Fixed Type : **STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN**)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	7	150x150 CCA timber
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		**8**	**7**	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Abutments				
Bearing Seats/Caps		8	8	
(Type : **CONCRETE**)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		9	8	
Scour/Erosion		9	7	
Piers/Bents				
(Type : **PIER-COLUMN**)				
Bearing Seats/Caps		8	8	
(Type : **STEEL**)				
(Total Number of Bearing Piles : **2**)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	5	Minor erosion starting at East column
Debris (Y/N)	No			

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Substructure General Rating		**8**	**8**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel				
(U/S Direction : **W**)				
(D/S Direction : **E**)				
Alignment		7	7	
Bank Stability		5	4	Steep cut at SW
HWM (m below Top of Curb)	6.0			No Visible HWM Trees @ banks and streambed
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : **RIP RAP; RIP RAP**)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**7**	**4**	

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Install approach rail at NE- 4.5m CCA rail and post.				
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
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						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**88.9/83.3**	**Sufficiency Rating (Last/Now) (%)**	**/85.9**	Est. Repl. Yr	2050	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	Tom Carey	Previous Assistant's Name			
Next Inspection Date	20-Apr-2017	Previous Inspection Date	17-Jul-2007		
Inspection Cycle (Default) (months)	57				
Comment					