

Bridge Inspection							
Bridge File Number	76382 N-1 Bridge			Form Type	SG		
Year Built/Year Supstr	1967/1967			Lot No.	2		
Bridge or Town Name	CANMORE			Inspector Name	Garry Roberts		
Located Over	1:02 L1 0.966;1:02 R1 1.025			Inspector Class	BR CLS A		
Located On	LOCAL ROAD;RAMP 10-1 A			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	07-Feb-2012		
Legal Land Location	SW SEC 18 TWP 25 RGE 10 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-115:23:44, 51:07:40			Data Entry Date	13-Mar-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA28			Review Date	21-Feb-2012		
Clear Roadway/Skew	7.3 / 40 deg. (RHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	100 / 2010 (E)			Dept. Review Date	22-Mar-2012		
Road Classification	RAD-412.4-120			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 49 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 1 L1 5.2m, 1 R1 5.2m										
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		Missing 1 E/B sign at R/H shoulder.										
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)		No										
Remarks		Not required.										
Other Sign Types		One way traffic, curve, 55 km/hr.										

Utilities (Located at)				
Utility Attachments	POWER UTILITIES-POWER LINE			
Telephone			Gas	
Power	Through East parapet.		Municipal	
Others	Light standards on East parapet.		Problem (Y/N)	Yes
Remarks		SE light stand has 1 short A/B with no nut and 1 with insufficient thread.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Adequate for posted speed of 55km
Vertical Alignment		6	6	Harvey Heights overpass
Roadway Width (m)	7.300			
Approach Bump		7	6	
Guardrail (Y/N)		Yes		Wrong lap at SE and SW. Bolts not fully tight at SE and SW attachment to parapet, and missing 2 bolts at NE.
Guardrail		5	3	
Length (m)	34.000			
Current Standard (Y/N)	Yes			
Termination Type		Turn Down		
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RB, 4 Spans, Lengths(m): 15.2-30.5-30.5-15.2, A-Ident Number: A0577-01)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last							
Now	0.0	0.0	0.0	0.0			
Wearing Surface			6	6	Random diagonal, longitudinal and transverse cracks.		
(Material Type : CONCRETE)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			3	4	Deck side fingers are 5mm high at A1.		
Temperature (deg. C)		-12					
(Expansion Type : FINGER PLATES)							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
15		S. abut.					
26		N. abut.					
Deck Drainage			4	4	Steel trough extensions do not deposit run-off into concrete drain troughs along headslope. Drains are full.		
Drains Clogged (Y/N)		No					
Curbs/Median			5	5	Several rust stains on face. Minor spalls @ bottom.		
(Curb Type : JERSEY/F SHAPE)							
Scaling (Percent Area)		0					
Bridge Rail			X	X	Concrete parapets.		
(Type :)							
Bridge Rail Posts			X	X			
(Type :)							
Bridge Rail/Posts Coating			X	X			
(Type :)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			7	7	Minor sweep in girder flanges due to skew pressures, 20 mm.		
Flange			6	6			
Web			7	7			
Stiffeners			7	7			
Splice			7	7			
Weld			7	7			
Diaphragms/Cross Frame			7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 4 Spans, Lengths(m): 15.2-30.5-30.5-15.2, A-Ident Number: A0577-01)				
Paint Condition		4	4	Corrosion and paint peeling @ bottom flanges, 10%. Isolated corrosion @ top flanges.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Touchup Required (Y/N)	No			
Bearings		4	5	Some pads cracked.
Temperature (deg. C)	-12			
(Expansion Type : SLIDING PLATE;ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	3	Rust staining through cracks, around weeping tubes, through const. joints. Concrete breaks @ isolated top flange area at G1 over P3. Corroded @ top flange @ span 2 @ G1 & G2 over E/B inside lane and shoulder
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	Tar
Abutment Stability		5	6	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 2:2:2)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Pigmented coating with isolated peeling
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	7	
Traffic Safety Features		7	3	Guardrail at shoulders. 1 broken post at South.
Type	Median/Guardrail			
Slope Protection		4	4	Broken @ South & North @ toe & @ piers. Slid as much as 380 mm @ South - partially sealed with cold mix @ worst gaps
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		4	4	Deck drain troughs @ South abutment outlet beside slope protection.
Grade Separation General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten and add 2 bolts at thriebeam transitions. Replace 1 post at South rail.					
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	2012	Clean abutment trough drains.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair approx. 20m2 slope protection - seal curbs and gaps.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Remove & patch concrete @ deck under side @ span 2 @ top flange @ G1 & G2 and at G1 over pier 3.					
OTHER ACTION	2012	Repair anchorage of SE lightstandard.					
OTHER ACTION	2012	Install advance V.C sign E/B.					
OTHER ACTION	2012	Adjust trough drains to mate with concrete drains.					
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	46.4/45.5	Est. Repl. Yr	2022	Maint. Req. (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	Randy Bredo		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	07-Nov-2013		Previous Inspection Date	25-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							