

Bridge Inspection									
Bridge File Number	78041 N-1 Bridge				Form Type	SG			
Year Built/Year Supstr	1974/1974				Lot No.	2			
Bridge or Town Name	Ralph Steinhauer Bridge, Ft. McMurray				Inspector Name	Arnold Assenheimer			
Located Over	ATHABASCA RIVER, 8.11, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	63:11 R1 13.190				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	09-Mar-2010			
Legal Land Location	SE SEC 20 TWP 89 RGE 9 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:23:39, 56:43:52				Data Entry Date	08-Apr-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA07				Review Date	05-Apr-2010			
Clear Roadway/Skew	8.5 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	53,290 / 2008 (A)				Dept. Review Date	12-Apr-2010			
Road Classification	RFD-412.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	Information, Speed 70 kph. Construction signs.								

Utilities (Located at)									
Utility Attachments	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE								
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)				
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve @ both ends.				
Vertical Alignment			7	7					
Roadway Width (m)	11.800								
Approach Bump			6	6					
Guardrail (Y/N)	Yes				SE - >99.0m of PC jersey barriers; SW - 22.8m; NE - 99.0m; NW - 22.8m.				
Guardrail			5	4					
Length (m)	22.800				Accident damage at NW corner.-photo				
Current Standard (Y/N)	No				No thrie beam transitions.				
Termination Type	Turned Down								
Drainage			5	5					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 7 Spans, Lengths(m): 61-61-76.2-76.2-61-61-76.2, A-Ident Number: A0770-02;A0770-05;A0770-03;A0770-04)					
Special Features					
Special Feature			7	Dewidag strengthening outside of West ext girder. Access walkway between girders inaccessible on both end spans at South. Viewed bridge from banks & sidewalk.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		4	4	Concrete overlay visible in wheelpaths. FRSF overlay. Random transverse crack full width.	
(Material Type : CONCRETE)					
(Thickness (mm) : 50)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		5	3	Staining visible on piers. Rubber plumbing. North abut leaking onto G5, abut seat and bearing.-photo (09/Dec/2004) Not measured. Too hazardous to play in heavy traffic without proper traffic accommodation.	
Temperature (deg. C)		0			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
110		South abutment			
210		Pier #4			
110		North abutment			
Deck Drainage		7	3	Leaking onto N abut seat - possibly from drain tube.	
Drains Clogged (Y/N)		No			
Curbs/Median		3	3	Parapet vertical cracks, some previously sealed. Spalling; sidewalk side of East parapet on S6.	
(Curb Type : NEW JERSEY)					
Scaling (Percent Area)		0			
Bridge Rail		7	3	Concrete parapet with single HSS tube on top. Damaged section of pedestrian rail @ North approach. Missing section of rail from top of NJ barrier-photo-20m Post anchorage compromised by parapet spalling.-missing AB nut-photo	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	3		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6	Dirty.	
(Type : GALVANIZED)					
Sidewalk		5	5	North 1/3 L moderate scaling. Transverse cracking along sidewalk.	
Girder/Beam					
Cover Plate		7	7	Localized scaling. What can be seen looks O.K. Lower flange rusting & scaling.	
Flange		6	6		
Web		7	7		
Stiffeners		7	7		
Splice		7	7		
Weld		7	7		
Diaphragms/Cross Frame		6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
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Paint Condition		4	4	Bottom flange rusting & light scaling.
(Colour Description :)				Green.
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		N	5	Pier bearings viewed from banks with binoculars. Rocker bearings at neutral @ both abutments.
Temperature (deg. C)	0			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			Rusting & scaling.
Functioning (Y/N)	Yes			
Deck Underside		N	N	(Steel Q-DECK rusted at connections. 2003/03/13) Deck U/S not visible due to galvanized plating. Corrosion of plating at weep tube locations.
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Viewed from banks
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	7	
Abutment Stability		7	7	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				Massive.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0:0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Pedestrian path under North span.
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : RIP RAP)		7	7	
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Missing section of rail-20m					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
REPAIR/SEAL CURBS	2010	Seal parapet. Patch spall.					
PATCH DECK	2010	Patch previously sawcut delam patch in travel lane.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2010	N abut leakage					
RESET/ PAINT BEARINGS	2010	At next rehab.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	1 section flexbeam- 1 spacer post @ NW					
OTHER ACTION	2010	Repaired damaged sidewalk vert. rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	52.3/47.4	Est. Repl. Yr	2037	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	09-Dec-2011		Previous Inspection Date	17-Jul-2008			
Inspection Cycle (Default) (months)	21						
Comment							