

Bridge Inspection									
Bridge File Number	77872 N-1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1975/1975				Lot No.	2			
Bridge or Town Name	FT MCMURRAY				Inspector Name	Wade Nanninga			
Located Over	POPLAR CREEK, 8.11.31, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	63:12 R1 14.571				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Nov-2011			
Legal Land Location	NE SEC 24 TWP 91 RGE 10 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:27:39, 56:54:48				Data Entry Date	12-Dec-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA07				Review Date	23-Nov-2011			
Clear Roadway/Skew	13.4 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	20,590 / 2010 (A)				Dept. Review Date	15-Dec-2011			
Road Classification	RAD-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	"Poplar Creek" ID @ SE corner.								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	5 wires OH East 20m of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Hill North of bridge.					
Vertical Alignment		6	6						
Roadway Width (m)		14.000							
Approach Bump		5	5						
Guardrail (Y/N)		Yes		3 jersey barriers at NE damaged.					
Guardrail		7	3						
Length (m)		7.000							
Current Standard (Y/N)		No		SE & SW - 114.0m; NW - 7.0m; 99.m of PC jersey barrier @ NE.					
Termination Type		Turned Down		NO thrie beam transition					
Drainage		7	4	Erosion gully @ S abut from approach damage.					
Approach Road General Rating		6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covering gutters/curbs.
Last					
Now	10.0	0.0	0.0	0.0	
Wearing Surface			6	6	FRSF overlay. 2 medium longitudinal cracks length of bridge (one in each lane). Craze deck cracking.-17-Jul-2008
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	4	A1 joint leaks deteriorating girders. A2 joint is broken leaking water directly onto bearing seat.-photo-08-Mar-2010
Temperature (deg. C)		-10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : ASPHALTIC FIBRE BOARD)					
Gap Size (mm)		Gap Location			
60		N abut			
60		N pier			
65		S pier			
10		S abut			
Deck Drainage			4	4	Dirt/ice impeding drainage.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Narrow vertical cracking at 0.9m on exterior face. Minor plow scrapes along the curbs. Random patching along the curbs.-05-Mar-2010
(Curb Type : Standard)					
Scaling (Percent Area)		3			
Bridge Rail			7	7	Missing AB nut on 5th post-West rail.-08-Mar-2010 Stained/dirty
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		3	N		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	5		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now	0	0	0	11	
Girders			3	3	Wide vertical cracks at A1 at all girders. Worst @ S1G2. S1G1, 3 longitudinal cracks in West leg, 1 in East leg. The NW curb has spall on leg underside exposing corroded stirrups. (S3G1 East leg). S3G1 & G9 crack 100mm from end. S3G1 delam spall underside.-photo
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 27)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Five diaphragms have bottom rebar rusting / spalled.
Bearings		5	5	Scaling grout pads.
Temperature (deg. C)	-10			Corrosion on base plates.
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	4	S3G1 delam spall exposing rebar.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	5	A1 cracked, A2 stained
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		4	5	
Abutment Stability		7	7	
Scour/Erosion		6	4	Erosion gully in S headslope.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		4	4	Cracking under girders bearing over both piers at exterior.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Heavy graffiti abutment side of both piers.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	4	Erosion gully S headslope.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Install waterproof joint @ A1/A2, if not done.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Patch end of girders & S1G1 cracked leg.					
OTHER ACTION	2011	Patch bottom of end diaphragms.					
OTHER ACTION	2011	Repair cracked pier cap under G1 & G9 and seal.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	46.5/43.4	Est. Repl. Yr	2027	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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	15-Aug-2013		Previous Inspection Date	08-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							