

Bridge Inspection										
Bridge File Number	78041 N-2 Bridge				Form Type	SG				
Year Built/Year Supstr	2011/2011				Lot No.	4				
Bridge or Town Name	FT MCMURRAY				Inspector Name	Dave Lam				
Located Over	ATHABASCA RIVER, 8.11, WATERCRS-ST; TRAIL-PED, Trail under both approach spans.				Inspector Class	BR CLS A				
Located On	63:11 R1 13.174				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	07-Sep-2011				
Legal Land Location	SE SEC 20 TWP 89 RGE 9 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:23:37, 56:43:53				Data Entry Date	16-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA07				Review Date	28-Oct-2011				
Clear Roadway/Skew	27 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	55,300 / 2010 (A)				Dept. Review Date	15-Dec-2011				
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:	CL800						----> Primary Span			

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		No								
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not req'd									
Required Load Posting (t)		Single		Semi		Truck Train				
Posted Loading (t)		Single		Semi		Truck Train				
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not req'd									
Hazard Marker At Bridge (Y/N)		No								
Remarks	Not req'd									
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone	in r/w and under bridge				Gas					
Power	in r/w and under bridge				Municipal					
Others	Light standards on E curb				Problem (Y/N)	No				
Remarks	Utility conduits between G8/G10 full length with vault @ both abutments.									

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment				6	Horiz. curve @ both ends, Franklin Ave/hwy 63 merges at S end. Slight grade rises from S approach to bridge-good sight distance.					
Vertical Alignment				7						
Roadway Width (m)		27.000			Not yet constructed, currently under construction, under next contract.					
Approach Bump				N						
Guardrail (Y/N)					Not yet constructed, currently under construction, under next contract.					
Guardrail				N						
Length (m)										
Current Standard (Y/N)										
Termination Type										
Drainage				7	Headslopes/embankment fills recently completed bu no concrete trough drains planned to be installed.					

Approach Road				
		Last	Now	Explanation of Condition
Approach Road General Rating			6	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 7 Spans, Lengths(m): 61-76-76-61-61-76-61, A-Ident Number:)				
Special Features				
Special Feature			7	Missing screws securing panel to support to be replaced s necessary.-photo
(Type :)				
Catwalk Access			8	Under bridge between G8/G10 full length. "FAST" deicing sustem yet to be installed.
(Type : NONE)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last				
Now				
Wearing Surface			4	Localized damaged ACP caused by equipment tires at various locations.-photos
(Material Type : ACP)				
(Thickness(mm) : 90)				
Deck Top			8	Inspected prior to paving.
Deck Rideability			8	
Deck Joints			9	A1 and A2 between traffic portions only. Gland type @ sidewalk @ both abutments.
Temperature (deg. C)		32		
(Expansion Type : FINGER PLATES)				
(Fixed Type :)				
Gap Size (mm)		Gap Location		
175		N abut (A2)		
183		S abut (A1)		
Deck Drainage			9	
Drains Clogged (Y/N)		No		
Curbs/Median			6	Exterior side coverplate @ NE and SE to short-too be extended. Parapet type
(Curb Type : Standard)				
Scaling (Percent Area)				
Bridge Rail			9	On top of concrete barrier @ East and West side, none on top of median barrier. 4 locations with A/B and nut with insufficient thread projection.
(Type : GALVANIZED STEEL BRIDGE TUBE)				
Bridge Rail Posts			5	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)				
Bridge Rail/Posts Coating			9	
(Type : GALVANIZED)				
Sidewalk			9	Numerous transverse cracks-sealed.
Girder/Beam				
Cover Plate			X	
Flange			9	
Web			9	
Stiffeners			9	
Splice			9	
Weld			9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 7 Spans, Lengths(m): 61-76-76-61-61-76-61, A-Ident Number:)				
Diaphragms/Cross Frame			9	
Paint Condition			X	weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)				
Bearings			8	
Temperature (deg. C)	22			
(Expansion Type : POT BEARING)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			8	Random hairline transverse cracks with efflorescence staining-no problem
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps			9	
(Type : CONCRETE)				
Backwalls/Breastwalls			9	
Wingwalls			9	Bridge plaque note "Year of Construction" as 2010 should be 2011)
Piles			N	
Paint/Coating			9	
Abutment Stability			9	
Scour/Erosion			9	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps			9	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 8:8:8:8:8)				
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			X	
(Colour Description :)				
(Colour Code :)				
Pier Stability			9	
Scour			N	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating			9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment			9	
Bank Stability			6	Some bank erosion at either side of bridge but no proble at this time.
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection			9	Riprap at lower portion of both headslopes. Concrete slope portection to be installed at upper portion-to be done in next contract work.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs			X	
Adequacy of Opening			9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	
Grade Separation				
Road Alignment			7	Trail under both approach spans.
Traffic Safety Features			X	
Type	NONE			
Slope Protection			9	
(Type : RIP RAP; RIP RAP)				
Bank Stability			9	
Drainage			9	
Grade Separation General Rating			7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE 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							
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) (%)	/94.4	Sufficiency Rating (Last/Now) (%)	/71.7	Est. Repl. Yr	2086	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Deficiencies to be completed by contractor under contract 7504/08.		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			Previous Assistant's Name				
Next Inspection Date	07-Jun-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							