

Bridge Inspection											
Bridge File Number	78152 S-2 Bridge					Form Type	SG				
Year Built/Year Supstr	2003/2003					Lot No.	4				
Bridge or Town Name	FORT MCMURRAY					Inspector Name	Wade Nanninga				
Located Over	HANGINGSTONE RIVER, 8.11.39.1, WATERCRS-ST;TRAIL-PED					Inspector Class	BR CLS A				
Located On	63:11 L1 9.746					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	16-Nov-2011				
Legal Land Location	NW SEC 10 TWP 89 RGE 9 W4M					Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-111:21:26, 56:42:29					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	15.6 / 3 deg. (RHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	37,900 / 2010 (A)					Dept. Review Date	19-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:											----> Primary Span

Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)									
Posted:	Lane	WB	On Bridge (m)	In Advance (Y/N)	Lane	EB	On Bridge (m)	In Advance (Y/N)	
Remarks	Not required.								
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	NB	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		Speed, Information.							

Utilities (Located at)										
Utility Attachments										
Telephone	East r/w.				Gas	Crossing 30m North.				
Power	NW / NE street lights.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	On ramp to SW. Crest curve.				
Vertical Alignment			7	7					
Roadway Width (m)			15.600		All corners with thrie beam transition. One split post block @ SW, but functioning. NE - 78.0m; NW - 70.4m; SE - 99.0m; SW - 21.0m.				
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			4	5					
Length (m)			21.000						
Current Standard (Y/N)			Yes						
Termination Type			Turn down						
Drainage			8	8					

Approach Road					
		Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>		7	7		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 10.4-30.5-10.4, A-Ident Number: )</b>					
Special Features					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	20.0	0.0	0.0	0.0	
Wearing Surface		5	5	SF overlay. Random transverse narrow cracks.	
(Material Type : )					
(Thickness(mm) : )					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7		
Temperature (deg. C)		-15			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
50		South Abutment			
50		North Abutment			
Deck Drainage		8	8	Gravel/snow accumulation along the tops of the curbs.	
Drains Clogged (Y/N)		No			
Curbs/Median		8	N		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		8	8		
(Type : <b>GALVANIZED STEEL TUBE BEAM TYPE 2</b> )					
Bridge Rail Posts		8	8		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		8	8		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		X	X	6/span =>18	
Flange		8	8		
Web		8	8		
Stiffeners		8	8		
Splice		8	8		
Weld		8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 3 Spans, Lengths(m): 10.4-30.5-10.4, A-Ident Number: )</b>				
Diaphragms/Cross Frame		8	8	
Paint Condition		7	7	Weathering steel, local areas painted over previous graffiti.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		6	6	Some A/B's are bent @ piers.  A1 A2. P1 & P2.
Temperature (deg. C)	5			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Wide transverse cracks with efflorescence.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents (Widened)</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		8	8	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Debris on South headslope.
Slope Protection		8	8	Natural at A2 extending down to pedestrian path. Rock riprap @ stream side of P2 to stream.
(Type : <b>RIP RAP; GEOTEXTILE; RIP RAP; GEOTEXTILE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	
<b>Grade Separation</b>				
Road Alignment		7	7	Pedestrian / bike path under S3. Currently closed.
Traffic Safety Features		6	6	Chain link
Type	Fence			
Slope Protection		7	7	
(Type : <b>RIP RAP; GEOTEXTILE; RIP RAP; GEOTEXTILE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>62.1/62.1</b>	Est. Repl. Yr	2074	Maint. Req. (Y/N)	No
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	16-Aug-2013		Previous Inspection Date	09-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							