

Bridge Inspection							
Bridge File Number	77766 -1 Bridge			Form Type	TH TT		
Year Built/Year Supstr	1968/1967			Lot No.	4		
Bridge or Town Name	FT VERMILION			Inspector Name	Brian Pientsch		
Located Over	WABASCA RIVER, 8.10.18, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	88:16 C1 0.024			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	18-Jun-2012		
Legal Land Location	NW SEC 22 TWP 102 RGE 9 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-115:23:21, 57:52:30			Data Entry Date	19-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA01			Review Date	01-Nov-2012		
Clear Roadway/Skew	7.3 /			Dept. Reviewer Name	David Morrison		
AADT/Year	310 / 2011 (A)			Dept. Review Date	11-Jan-2013		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	999						
Allowable Load (t):	Single	CS1 29 STRINGER	Semi	CS2 50 STRINGER	Train	CS3 72 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)		Yes										
Posted:	Lane	NB	On Bridge (m)	6.0	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	6.0	In Advance (Y/N)	Yes
Remarks												
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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks		NOT REQUIRED										

Hazard Marker At Bridge (Y/N)	Yes											
Remarks												
Other Sign Types	CURVE, NARROW BRIDGE "WABASCA RIVER"ONE LANE BRIDGE											

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	5% GRADES ON VALLEY HILLS.
Vertical Alignment		5	5	
Roadway Width (m)	9.500			Insuficient number of posts & spacing in transition.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	19.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TH, 4 Spans, Lengths(m): 6.1-76.2-76.2-6.1, A-Ident Number: A0809-01;A0809-02)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5	0	0	0	
Now					
Wearing Surface/Deck Top			8	7	
(Material Type : COPPER CHROMATE ARSENATE TREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability			8	8	
Deck Joints			X	X	
Temperature (deg. C)		15			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards			8	8	
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 150)					
(Width(mm) : 300)					
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts/Blocking			7	7	
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	

Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Primary Span : TH, 4 Spans, Lengths(m): 6.1-76.2-76.2-6.1, A-Ident Number: A0809-01;A0809-02)						
Wide Load Damage (Y/N)	No				L9L10E span 2 has bow. 2 spans x 10 bays-span x 7 stringers-bay.	
High Load Damage (Y/N)	No					
Top Chord			7	7		
Batter Posts			7	7		
Sway Bracings			7	7		
Diagonals			7	7		
Verticals			7	7		
Portals			3	5		
Connections			7	7		
Floor Beams			7	7		
Bottom Chord			6	6		
(No. of Stringers : 70;70)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Stringers			7	7		
(Type : STEEL)						
(Width(mm) : 150;190)						
(Depth(mm) : 452)						
(Spacing(mm) : 1219)						
Paint Condition			7	7	COMPLETE PAINT 1997	
(Colour Description : BLUE)						
(Colour Code : 15182)						
Touchup Required (Y/N)	No					
Bearings			6	6		
Temperature (deg. C)	16					
(Expansion Type : ROLLER NEST BEARING)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	Yes					
Sub Deck/Deck Underside			7	7	Laminated.	
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 305)						
Defects (Percent Area)	1					
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating			3	5		
Superstructure						
Bridge Component			Last	Now	Explanation of Condition	
(Secondary Span : TT)						
Special Features						
Special Feature				X		
(Type :)						
Special Feature				X		
(Type :)						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : TT)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface/Deck Top			8	7	
(Material Type : COPPER CHROMATE ARSENATE TREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 300)					
Deck Rideability			8	8	
Wheel Guards					
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 150)					
(Width(mm) : 300)					
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
(No. of Stringers : 18;24)			18 span 1, 24 span 4		
Stringer Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Stringers			5	5	50mm x 1000mm sliver missing from center of stringer 5 span 4.
(Type : STEEL;TREATED TIMBER)					
(Width(mm) : 150)					
(Depth(mm) : 390)					
(Spacing(mm) : 520)					
Sub Deck/Deck Underside			7	7	
(Material Type : TREATED TIMBER)					
(Plank Thickness(mm) : 100)					
(Plank Width(mm) : 305)					
Defects (Percent Area)		0			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			7	5	
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)				(Note: spacing is 1000mm)	
(Extended Backwall Piles Spacing(mm) : 1000)					

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Bearing Seats/Caps/Corbels			7	7	
(Type : STEEL)					
(Depth(mm) : 310)					
(Width(mm) : 310)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		1.20			
Wingwalls			X	X	
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Piles			6	6	
Paint/Coating			7	7	
Painted caps.					
Abutment Stability			7	7	
Scour/Erosion			7	7	
Piers/Bents					
(Type : PIER-COLUMN;PIER-SOLID)					
(Total Number of Caps/Corbels : 27:1:27)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Bearing Seats/Caps/Corbels			6	6	
(Type : STEEL;CONCRETE)					
(Total Number of Bearing Piles : 25:0:25)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Pier Shaft/Piles			5	4	
Greatest Height (m)		12.00			
Bracing/Struts/Sheathing			7	7	
Nose Plate			7	7	
Paint/Coating			5	5	
Rusting on nose plate P2.					
(Colour Description :)					
(Colour Code :)					
Pier Stability			5	5	
Scour			7	7	
Debris (Y/N)		No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				Hwm not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	45.2/48.9	Est. Repl. Yr	2037	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor piles 1 & 7 @ pier 3.		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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	18-Mar-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							