

Bridge Inspection										
Bridge File Number	81235 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1990/1990				Lot No.	2				
Bridge or Town Name	IMPERIAL MIL				Inspector Name	Wade Nanninga				
Located Over	PICHE RIVER, 8.11.55.9.6.2, WATERCRS-ST				Inspector Class	BR CLS B				
Located On	881:20 C1 21.576				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Sep-2010				
Legal Land Location	SW SEC 6 TWP 70 RGE 11 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:40:20, 55:01:48				Data Entry Date	12-Oct-2010				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA08				Review Date	20-Sep-2010				
Clear Roadway/Skew	11.2 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	1,290 / 2009 (A)				Dept. Review Date	14-Oct-2010				
Road Classification	RLU-209G-90				Follow-Up By					
Detour Length (km)	250									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:							----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Missing NE & SW signs.-not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	Temp line taped to East rail.				Gas	1 line East r/w.				
Power	1 wire East r/w.				Municipal					
Others	Fibre optic East r/w.				Problem (Y/N)	No				
Remarks	Telephone cable crosses under North abutment.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Private haul road NW corner 150 m. No passing.				
Vertical Alignment			7	7					
Roadway Width (m)	10.000				Pothole and ACP cracking at N abut.				
Approach Bump			5	4					
Guardrail (Y/N)	Yes				Missing connection bolt to diagonal turndown @ NW and SW.				
Guardrail			7	4					
Length (m)	60.400								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 3 Spans, Lengths(m): 11-11-11, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface			X	5	Crack in some connection grout pockets.-12-Jun-2007 Girder lines showing.
(Material Type : <b>CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			4	N	Damage to girder top. S3/G2 surface abrading from traffic. 600 x 300 x 40mm deep.-12-Jun-2007 Dip at each pier due to girder camber.
Deck Rideability			6	6	
Deck Joints			7	N	Buffer angles.
Bump (Y/N)		No			
Deck Drainage			4	4	No drain. Leakage and stains underside of girders. Headslope settled at abutment.
Drains Clogged (Y/N)					
Curbs/Median			7	7	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	7	Missing AB nut post #3 from NW.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	3	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders			4	5	Typical longitudinal & diagonal girder cracking. Max diag crack length 300mm on S1-G2. Damage to girder top S3G2. Numerous other girders with edge spalls.-12-Jun-2010 Stained girder underside due to leaking between girders. Spall S2G1-photo
Last Complete Inspection Date		10-Sep-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>30</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>5</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : <b>Y</b> )					
(Extended Backwall Piles Spacing(mm) : <b>2000</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels			8	8	
(Type : <b>STEEL</b> )					
(Depth(mm) : <b>310</b> )					
(Width(mm) : <b>310</b> )					
Backwalls/Breastwalls			8	8	
Greatest Height (m)		1.20			
Wingwalls			8	8	
(Total Number of Bearing Piles : <b>7:7</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Piles			8	8	
Paint/Coating			4	4	Superficial corrosion on piles, corrosion on top flange of cap.
Abutment Stability			8	8	
Scour/Erosion			7	7	Settled approx 200mm.
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Bearing Seats/Caps/Corbels			7	7	
(Type : <b>STEEL</b> )					
(Depth(mm) : <b>310</b> )					
(Width(mm) : <b>620</b> )					
(Total Number of Bearing Piles : <b>7:7</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Pier Shaft/Piles			8	8	
Greatest Height (m)		4.10			
Bracing/Struts/Sheathing			8	8	
Nose Plate			7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	Lower 1.0m of pier piles with superficial rusting.
(Colour Description : <b>YELLOW</b> )				
(Colour Code : <b>13538</b> )				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		9	9	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>8</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Replace missing top connection bolt @ SW/NW corner. 1 missing AB nut.					
SEAL CURBS							
PATCH DECK	2010	Patch S2G1 girder.					
OVERLAY DECK	2010	HPC concrete & repair girder connections.					
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							
INSTALL STRUTS							
OTHER ACTION	2010	Patch pothole and seal cracks in ACP @ N abut.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.3/61.8</b>	Est. Repl. Yr	2059	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor corrosion on lower portions of piles.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	10-Dec-2013		Previous Inspection Date	12-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							