

Bridge Inspection							
Bridge File Number	07572 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1970/1970			Lot No.			
Bridge or Town Name	MICHICHI			Inspector Name	Wayne Cappellani		
Located Over	TRIBUTARY TO MICHICHI CREEK, 3.35.6, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	849:04 C1 11.612			Assistant Name	Chris Black		
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Sep-2011		
Legal Land Location	SW SEC 19 TWP 30 RGE 18 W4M			Data Entry By	Wayne Cappellani		
Longitude, Latitude	-112:32:10, 51:34:41			Data Entry Date	10-Sep-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Wayne Cappellani		
Contract Main. Area	CMA21			Review Date	10-Sep-2012		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Wayne Cappellani		
AADT/Year	100 / 2011 (A)			Dept. Review Date	10-Sep-2012		
Road Classification	RCU-208G-90			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> 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 Req'd						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	Too low (1000mm @ N. end & 900mm @ S. end). Damaged HM @ N. end						
Other Sign Types	Sharp curve, Deer Crossing						

Utilities (Located at)			
Utility Attachments			
Telephone	In West r/w.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	4	In valley with a curve at N end - limited sight distance.
Vertical Alignment		5	4	Field access 30 M @ NE.
Roadway Width (m)	7.300			Severe potholes @ S. approach
Approach Bump		5	3	
Guardrail (Y/N)	Yes			Insufficient length & posts.
Guardrail		7	4	SE turned down terminal end has minor damage. Terminal ends not properly secured in place @ SE & NE.
Length (m)	8.000			Not Thrie Beam
Current Standard (Y/N)	No			Splice bolt missing @ NE
Termination Type	TURND DOWN END			
Drainage		8	4	Vegetation growth & gravel windrows under both approach rails impedes drainage onto bridge deck
Approach Road General Rating		5	3	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature			X	File tags NW & SE.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	75	
Now				75.0	
Wearing Surface			3	3	75% of cold mix peeled off.
(Material Type : MIX TYPE 1 ACP)					
(Thickness(mm) : 25)					
Lateral Connection Problem (Y/N)		No			
Deck Top			6	5	25% covered with cold mix
Deck Rideability			5	4	Cold mix at NW moderate bump
Deck Joints			6	6	ACP covered at A2. Buffer angles. Approx. 20mm difference buffer angles & cold mix
Bump (Y/N)		Yes			
Deck Drainage			5	4	Gravel heavy build-up (ranged from 50 to 75mm) along curbs.
Drains Clogged (Y/N)		No			
Curbs/Median			6	4	Isolated severe spall section with exposed rebar @ NW. Grader scrapes. Lifting hook pockets were not grouted.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Missing 8 splice bolts.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders			4	4	G1 wide long. cracks in AZ, 1 leg only.
Last Complete Inspection Date		27-Sep-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				6	6	Minor Bowing @ A1/S.
Greatest Height (m)		3.80				
Wingwalls				5	5	SE pushing in slightly.
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				6	4	Severe scouring @ D/S end @ NW corner
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				7	6	Struts - slight bow @ W. end/Pile 1
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Beaver dam @ U/S end of bridge.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				Timber retainer wall between D/S extension piles.
(D/S Direction : W)				
Alignment		7	8	
Bank Stability		4	4	Eroding at d/s corners.
HWM (m below Top of Curb)	1.6			(Based on signs in u/s grass, silt/bent grass 10-May-2011). HWM not visible. Spillway 250m E.
Drift (Y/N)	No			
Slope Protection (Type : RIP RAP; RIP RAP)		6	6	Class I & Class II
Guidebank/Spurs		X	X	
Adequacy of Opening		4	4	Erosion at SW,NW banks at wingwalls.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 9 splice bolts					
SEAL CURBS	2012	Deck and curbs					
PATCH DECK	2012	Repair/patch spalled with exposed rebar section in curb @ SW corner.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2012	Wash annually deck surface and gutters.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2012	Placement 2m3 Class I & II rock @ SW & NW corners.					
REMOVE DRIFT ACCUMULATION	2012	Removal of beaver dam @ U/S end of bridge.					
INSTALL STRUTS							
OTHER ACTION	2012	Grout lift and connector pockets 0.2m(3) NH Grout					
OTHER ACTION	2012	Removal of remaining ACP cold mix					
OTHER ACTION	2012	Repair potholes @ S. approach					
OTHER ACTION	2012	Reset all 4 Hazard Markers & replace 2 damaged HM signs @ N. end.					
OTHER ACTION	2012	Secure turndown ends properly at all 4 corners in approach rail.					
OTHER ACTION	2012	Replace 2 damaged turndown ends in approach rail @ NW & SE corners.					
OTHER ACTION	2012	Removal/veanup vegetation and gravel windrows under approach rail at all 4 corners					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.7/52.7	Est. Repl. Yr	2030	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	10-May-2011			

Inspection Cycle (Default) (months)	39
Comment	