

Bridge Inspection							
Bridge File Number	71747 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1968/1968			Lot No.	1		
Bridge or Town Name	GEM			Inspector Name	Tom Carey		
Located Over	TRIBUTARY TO MATZHIWIN CREEK, 3.15.3, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	556:02 C1 1.601			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Feb-2010		
Legal Land Location	SE SEC 3 TWP 23 RGE 16 W4M			Data Entry By	Erin Roberts		
Longitude, Latitude	-112:08:42, 50:55:17			Data Entry Date	06-Mar-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA23			Review Date	22-Feb-2010		
Clear Roadway/Skew	10.1 /			Dept. Reviewer Name	Lorenz Bohnert		
AADT/Year	180 / 2008 (A)			Dept. Review Date	08-Mar-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	40						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	WB	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	

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	1 wire north		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Not Thriebeam
Vertical Alignment		8	8	
Roadway Width (m)	10.000			
Approach Bump		6	7	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	8.000			
Current Standard (Y/N)	No			
Termination Type	TURN DOWN			
Drainage		6	7	
<b>Approach Road General Rating</b>		<b>8</b>	<b>8</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, 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>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	Does not extend to curbs Travel lanes are paved
(Material Type : <b>ACP</b> )					
(Thickness (mm) : <b>50</b> )					Cracks between girders
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	ACP covered
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	6	Outer sw corner-spalled, minor
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Single layer Nuts only at SE
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts			7	5	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	Narrow and hairline shear cracks and all interior girders G3 at Abut 1 has medium shear cracks
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	1	
Girders			5	3	Some filled with tar. Some not filled - see photo  void lift pockets at curbs
Last Complete Inspection Date		02-Feb-2007			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : <b>12</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>3</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing (mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth (mm) : 350)						
(Width (mm) : 300)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		2.20				
Wingwalls			6	6		
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				7	N -Ice	
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
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)		
<b>Last</b>	0	0	0	0		
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			5	5 Slight bow on some		
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)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		7	N	Snow
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection (Type : )		6	N	Snow
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>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
REPAIR/SEAL CURBS	2010	Grout curb lift pockets					
PATCH DECK							
OVERLAY DECK							
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	Band pile 8 at abut 1					
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>68.5/63.8</b>	Est. Repl. Yr	2021	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	10-May-2013		Previous Inspection Date	02-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							