

Bridge Inspection											
Bridge File Number	09982 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1970/1970				Lot No.	2					
Bridge or Town Name	IRVINE				Inspector Name	Tom Carey					
Located Over	MCALPINE CREEK, 28.5, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	515:02 C1 9.171				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	12-Mar-2012					
Legal Land Location	SE SEC 4 TWP 10 RGE 2 W4M				Data Entry By	Erin Roberts					
Longitude, Latitude	-110:12:58, 49:47:10				Data Entry Date	08-Apr-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA23				Review Date	24-Mar-2012					
Clear Roadway/Skew	8.2 / -30 deg. (LHF)				Dept. Reviewer Name	Tim Davies					
AADT/Year	80 / 2011 (A)				Dept. Review Date	17-Apr-2012					
Road Classification	RCU-208-110				Follow-Up By						
Detour Length (km)	5										
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									
Hazard Marker At Bridge (Y/N)		Yes							
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	South side.				Gas					
Power	3 wires North side.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Not thriebeam.				
Vertical Alignment			7	7					
Roadway Width (m)	8.200								
Approach Bump			7	7					
Guardrail (Y/N)			Yes						
Guardrail			7	7					
Length (m)			11.000						
Current Standard (Y/N)			No						
Termination Type			TURNDOWN						
Drainage			6	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</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						
(Type : )						
Special Feature						
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	100					
<b>Now</b>	70.0	0.0	0.0	0.0		
Wearing Surface			N	4	2 center girders are abraded - exposing top steel of girders.	
(Material Type : <b>CONCRETE</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)						
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			N	N	(Rebar exposed especially East abutment.)	
Bump (Y/N)		No			Gravel covered.	
Deck Drainage			5	5	Gravel restricting flow.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	5	Corner spalls have been repaired. Spall at North exposing rebar at one isolated area.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		10				
Bridge Rail			6	7	Double layer.	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts			7	7		
(Type : <b>POST STEEL;POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Girders			4	4	Some drift pin damage. All have flexural, longitudinal and roof cracks.	
Last Complete Inspection Date		12-Mar-2012				
Cracking (Y/N)		Yes			5 girders with longitudinal cracks in webs- worst is G9 wide cracks in both webs in AZ.	
Spalling (Percent Area)		20			Concrete sound. Girders 3,4,5,6,7 have narrow shear cracks.	
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : <b>10</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>			<b>4</b>	<b>4</b>		

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1400)							
(Total Number of Caps/Corbels : 3:3)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				6	6		
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls			7	4			
Greatest Height (m)		2.40					
Wingwalls			7	7			
(Total Number of Bearing Piles : 7:7)				Pile 5 at West is split but banded.			
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Piles				6	5		
Paint/Coating				X	X		
Abutment Stability				6	6		
Scour/Erosion				7	4		
1.0m deep scour under bridge at South.							
<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>							
<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>							
<b>Now</b>							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				X	X		
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description : )							
(Colour Code : )							
Pier Stability				X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.0			
Drift (Y/N)	No			
Slope Protection		N	4	Class 2 at all four corners.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>4</b>	1.0 deep scour under bridge.

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	10m3 class 2 under bridge and at piles 1 to 3 at East abut.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>71.1/67.1</b>	Est. Repl. Yr	2022	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	12-Jun-2015		Previous Inspection Date	12-Mar-2009			
Inspection Cycle (Default) (months)	39						
Comment							