

Bridge Inspection											
Bridge File Number	78388 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1980/1980				Lot No.	2					
Bridge or Town Name	TILLEY				Inspector Name	Tom Carey					
Located Over	EID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A					
Located On	876:02 C1 19.906				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	16-Feb-2010					
Legal Land Location	NW SEC 36 TWP 18 RGE 13 W4M				Data Entry By	Kelsey Roberts					
Longitude, Latitude	-111:39:59, 50:34:17				Data Entry Date	23-Mar-2010					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA23				Review Date	24-Feb-2010					
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Lorenz Bohnert					
AADT/Year	200 / 2008 (A)				Dept. Review Date	26-Mar-2010					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	18										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS23									----> 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										
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	3 Wire west ditch				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		9	9	Not thriebeam					
Vertical Alignment		9	9						
Roadway Width (m)	12.500								
Approach Bump		6	5						
Guardrail (Y/N)	Yes								
Guardrail		5	5						
Length (m)	8.100								
Current Standard (Y/N)	No								
Termination Type	Turndown								
Drainage		5	4						
Approach Road General Rating		9	9						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 6-11-6, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Mud and snow @ 30%
Last	0	0	0	0	
Now	30.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness (mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			6	6	
Deck Rideability			8	8	
Deck Joints			4	4	
Bump (Y/N)		No			1 SPALL PATCHED PARTIALLY- gravel abbrasion.
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	some spalls in the corners- minor
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	7	2 layers
(Type : FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			5	5	angle cracks on bottom of outside girders. HAIRLINE LONGIT. CRACKS IN BOTTOMS OF SEVERAL GIRDERS. Spall crack at G6 @ S2 @ P1. 20mm Dia. holes drilled through bottoms of girders @ all voids @ ends.
Last Complete Inspection Date		15-Feb-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 24)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing (mm) : 1100)						
(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	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth (mm) : 350)						
(Width (mm) : 375)						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		1.70				
Wingwalls				7	N	Snow covered at south
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				6	6	Only top 100 to 200mm seen @ south.
Paint/Coating				X	X	None
Abutment Stability				7	7	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						
(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	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth (mm) : 350)						
(Width (mm) : 375)						
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				7	6	
Greatest Height (m)		3.50				
Bracing/Struts/Sheathing				4	3	Broken brace at P1.
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	6	Most piles lean 100mm to east.
Scour		6	N	Ice
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		9	9	
Bank Stability		6	N	Snow
HWM (m below Top of Curb)				NO VISIBLE HWM
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
REPAIR/SEAL CURBS							
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	Clear out gravel from under guardrail.					
OTHER ACTION	2010	Replace brace at P2 - 4500x75x300 TT					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.1/62.1	Est. Repl. Yr	2023	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	16-May-2013		Previous Inspection Date	20-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							