

Bridge Inspection									
Bridge File Number	06572 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1961/1961				Lot No.	1			
Bridge or Town Name	HALKIRK				Inspector Name	Jason Saly			
Located Over	TRIBUTARY TO SULLIVAN LAKE, 3.14.14.2.4, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	855:04 C1 24.773				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Jun-2010			
Legal Land Location	SW SEC 19 TWP 37 RGE 15 W4M				Data Entry By	Jill Potts			
Longitude, Latitude	-112:08:52, 52:11:29				Data Entry Date	01-Jul-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA21				Review Date	24-Jun-2010			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Chris Black			
AADT/Year	170 / 2009 (A)				Dept. Review Date	06-Jul-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Not to standard height.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West side of road.				Gas				
Power	1 OH wire along East fenceline.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	1100m South of NE 24-37-16-4. Approach 40m NW.				
Vertical Alignment			8	8					
Roadway Width (m)	11.000				Transverse ACP cracks at abutments.				
Approach Bump			5	6					
Guardrail (Y/N)	Yes				1 section @ NE dented but still functional.				
Guardrail			5	5					
Length (m)	39.000								
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HH, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			5	6	Long cracks reflect through asphalt but HH girders are unconnected design.
(Material Type : ACP)					
(Thickness(mm) : 30)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	(S1G8 top/edge spall (2) - photo. 15/11/03)
Deck Rideability			7	7	
Deck Joints			N	N	(Some girder ends do not have buffer angles. 15/11/03) ACP covered.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	3 exposed voids along the East curb at deck drains.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			4	5	Single layer. Weak splice.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	G9 on all spans, G4 on span 1. No action needed right now.
Last	0			4	
Now				4	
Girders			3	3	Wide cracks in both legs in AZ in 4 girders. Spalling with exposed rebar G9S2.
Last Complete Inspection Date		16-Jun-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	No action required @ this time for cracked girder legs.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 5:5)				3 subcaps. Caps recently replced.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				5	8	
(Type :)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		1.20				
Wingwalls			6	5		
1 pile wingwall. Top plank broken @ NW wingwall. No concern at this time.						
(Total Number of Bearing Piles : 9:9)				Covered by dirt, backfill.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	9					
Piles				6	6	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				6	6	
Scour South abutment, not affecting stability, no problem. Erosion channels in both headslopes created by drainage between girders, no problem.						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 5:5)				3 subcaps. New caps.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0			2		
Now						
Bearing Seats/Caps/Corbels				3	8	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
(Total Number of Bearing Piles : 9:9)				2nd pile from East, South pier is spliced with pipe pile. P1P1 vertical split - photo.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Pier Shaft/Piles				5	5	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing			6	6		
Bracing 75mm x 300mm. Missing cleat at some struts nailed in. 9 struts 150mm x 200mm.						
Nose Plate			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		3	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Some erosion on South headslope, no problem. Low riprap.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

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							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2010	Seal cracks in ACP.					
PATCH CURBS/PARPETS	2010	Patch holes in East curb 0.01m3 grout					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/44.4	Sufficiency Rating (Last/Now) (%)	56.0/59.6	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for girders with 3 ratings.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Bridge should be adequate until 2024. CB						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Tim Davies		Previous Assistant's Name				
Next Inspection Date	16-Sep-2013		Previous Inspection Date	23-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							