

Bridge Inspection											
Bridge File Number	75742 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1963/1963				Lot No.	3					
Bridge or Town Name	HILL SPRING				Inspector Name	Jon Davies					
Located Over	UID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B					
Located On	800:02 C1 11.731				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	08-Dec-2012					
Legal Land Location	SW SEC 30 TWP 3 RGE 27 W4M				Data Entry By	Kelsey Roberts					
Longitude, Latitude	-113:37:25, 49:14:07				Data Entry Date	05-Jan-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA25				Review Date	16-Dec-2012					
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	410 / 2011 (A)				Dept. Review Date	08-Jan-2013					
Road Classification	RCU-209-110				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	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.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	Marker bolted to rail at each approach corner.									
Other Sign Types										

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	Conduit W.side - also E.side				Gas					
Power	West side - 3 wire				Municipal					
Others					Problem (Y/N)	Yes				
Remarks	AGT conduit-has come apart at joint west side.									

Approach Road														
			Last	Now	Explanation of Condition									
Horizontal Alignment			6	6	Curves both end and rises to north									
Vertical Alignment			6	6										
Roadway Width (m)		10.600												
Approach Bump			6	6	Too short Incorrect lap and not thriebeam									
Guardrail (Y/N)		Yes												
Guardrail			7	4										
Length (m)		5.500												
Current Standard (Y/N)		No												
Termination Type		ROUND/TURNED DOWN												
Drainage			7	7										
Approach Road General Rating			6	6										

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, 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	0.0	0.0	0.0	0.0			
Wearing Surface		6	6	Longitudinal cracks along girder lines			
(Material Type : ACP)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)		No					
Deck Top		N	N				
Deck Rideability		7	7				
Deck Joints		N	N	Paved over			
Bump (Y/N)		No					
Deck Drainage		7	7	Drains to south.			
Drains Clogged (Y/N)		No					
Curbs/Median		5	5	Lot of alligator cracks in curb face. Minor plow damage at corners.			
(Curb Type : Standard)							
Scaling (Percent Area)		3					
Bridge Rail		7	7	Missing 1 post top at west side			
(Type : FLEX BEAM)							
Bridge Rail Posts		4	4	Rusting and some pitting			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating		4	4				
(Type : PAINT)							
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	Drift pin spalls at ends. Some diag. cracks on all legs. Not shear cracks. Wide cracks in AZ of 1 leg at G4, G6 in sound concrete.			
Last Complete Inspection Date		08-Dec-2012					
Cracking (Y/N)		Yes					
Spalling (Percent Area)		2					
Lift or Connector Pocket Grouted (Y/N)		Yes					
(Number Of Girders : 10)							
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) : 1600)					
(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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls				6	6
Greatest Height (m)		3.00			
Wingwalls				6	6
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles				5	5
Paint/Coating				X	X
Abutment Stability				6	6
Scour/Erosion				6	6
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				4	4
4 struts have been washed out. 3 left Abutment appears not to have moved.					
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				
Substructure General Rating		5	5		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel					
(U/S Direction : W)					
(D/S Direction : E)					
Alignment		7	7	Turnout to SE.	
Bank Stability		7	7		
HWM (m below Top of Curb)				HWM not visible	
Drift (Y/N)	No				
Slope Protection		6	6		
(Type : RIP RAP; RIP RAP)					
Guidebank/Spurs		X	X		
Adequacy of Opening		7	7		
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		7	6		

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	2013	Notify Telus- repair conduit					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	65.5/64.3	Est. Repl. Yr	2020	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	08-Mar-2016		Previous Inspection Date	08-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							