

Bridge Inspection									
Bridge File Number	78406 -2 Bridge				Form Type	PCS			
Year Built/Year Supstr	2003/2003				Lot No.	2			
Bridge or Town Name	SPRING COULE				Inspector Name	Jon Davies			
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	02-Dec-2012			
Legal Land Location	NW SEC 25 TWP 4 RGE 23 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-112:59:14, 49:19:45				Data Entry Date	02-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	UNDEFINED CMA				Review Date	07-Dec-2012			
Clear Roadway/Skew	8 / 40 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	15 / 2003 (E)				Dept. Review Date	08-Jan-2013			
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> 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. Confirm design loading is CS750.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE								
Telephone	West side				Gas				
Power	East side-1 wire				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	8	Road allowance Rd. Rd 231.				
Vertical Alignment			6	7					
Roadway Width (m)			6.500						
Approach Bump			7	6					
Guardrail (Y/N)			Yes		Not thriebeam.				
Guardrail			8	7					
Length (m)			4.000						
Current Standard (Y/N)			No						
Termination Type			ROUND OUT						
Drainage			7	7					
Approach Road General Rating			6	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 4 Spans, Lengths(m): 12-12-12-12, 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			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)					
Deck Top			8	7	
Deck Rideability			8	7	
Deck Joints			8	7	
Bump (Y/N)		No			
Deck Drainage			8	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			8	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	4	2 layers. Lap splices missing 2-4 bolts throughout.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	Painted posts with minor corrosion.
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(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			7	4	Longitudinal hairline cracks on the bottom of numerous girders.
Last Complete Inspection Date		02-Dec-2012			
Cracking (Y/N)		Yes			Some with hairline D-cracks at pier faces. None with corrosion staining. All rated 7.
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			32 connector pockets at interior girders in regular wheel path have spalled grout.
(Number Of Girders : 32)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			7	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				At NE and SE.		
(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			8			8
(Type : STEEL)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls			8	7	At SW and NW.	
Greatest Height (m)		1.40				
Wingwalls			8	7		
(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			8	8		
Paint/Coating			6	7		
Abutment Stability			8	8		
Scour/Erosion			8	8		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1:1)						
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			8	8		
(Type : STEEL)						
(Depth(mm) : 350)						
(Width(mm) : 450)						
(Total Number of Bearing Piles : 7:7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles			8	8		
Greatest Height (m)		4.40				
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating			6	7	Grey.	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Turns 90 deg at the West end
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.6			No HWM visible.
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		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Drill and install lap splice bolts approx 60 bolts.					
SEAL CURBS							
PATCH DECK	2013	Grout 3z connect pockets at interior girder. 0.3m3					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/66.7	Sufficiency Rating (Last/Now) (%)	87.4/66.9	Est. Repl. Yr	2043	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	02-Sep-2017		Previous Inspection Date	11-Sep-2007			
Inspection Cycle (Default) (months)	57						
Comment							