

Bridge Inspection									
Bridge File Number	79657 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1984/1984				Lot No.	2			
Bridge or Town Name	LANGDON				Inspector Name	Jason Rusu			
Located Over	WID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	22X:04 C1 32.518				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Feb-2013			
Legal Land Location	SE SEC 31 TWP 22 RGE 26 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-113:35:25, 50:54:26				Data Entry Date	10-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA30				Review Date	04-Mar-2013			
Clear Roadway/Skew	13.2 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	3,880 / 2011 (A)				Dept. Review Date	13-Mar-2013			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS300						----> 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	Not req.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks	None Visible								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7						
Vertical Alignment		8	8						
Roadway Width (m)	14.200								
Approach Bump		6	6						
Guardrail (Y/N)	Yes			Wrong splice at NW. Missing 4 splice bolts at SE- 8 at SW- 2 at NW. Not thriebeam.					
Guardrail		4	4						
Length (m)	23.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage		6	4	Vegetation and debris accumulation at SE is holding water at SE abutment joint.					
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SMC, 3 Spans, Lengths(m): 10-10-10, 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	Chip coat on epoxy. 20mm total thickness. A few areas have chipseal worn off.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		6	4	BUMP @ BOTH ABUTS-minor. Scars @ Angles from low approach. SE abut joint is open-seal.	
Bump (Y/N)	Yes				
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		4	4	Light scaling at 5% at tops. Some cracks & corrosion stains minor spalls	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail		7	7	Isolated wide load scrapes. 12 A/B nuts not fully engaged.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type : GALVANIZED)					
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	7	Hairline cracks.	
Last Complete Inspection Date		09-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating		7	7		

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 : 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	1		
Bearing Seats/Caps/Corbels				7	3	
(Type : CONCRETE)						
(Depth(mm) : 900;800)						
(Width(mm) : 450)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		0.90				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	1	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				8	8	
Scour/Erosion				8	8	
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				8	8	
(Type : CONCRETE)						
(Depth(mm) : 800)						
(Width(mm) : 500)						
(Total Number of Bearing Piles : 6:6)						
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)		4.00				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				4	4	
(Colour Description : BROWN)						
(Colour Code : 30252)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		7	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Irrigation canal.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Curb)				No visible HWM .
Drift (Y/N)	No			
Slope Protection		8	8	
(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	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2013	Seal abutment joint and utility conduit at SE.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2013	Remove debris build up curbs and approach road shoulders.					
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	Repair abutment spall at SE (approx 3m2)					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	67.9/59.8	Est. Repl. Yr	2045	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	Jason Rusu			
Next Inspection Date	09-Nov-2014		Previous Inspection Date	24-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							