

Bridge Inspection							
Bridge File Number	73924 N-2 Bridge			Form Type	PCS		
Year Built/Year Supstr	1997/1997			Lot No.	2		
Bridge or Town Name	LETHBRIDGE			Inspector Name	Jason Rusu		
Located Over	SMR - IRRIGATION C, WATERCRS-IC			Inspector Class	BR CLS A		
Located On	4:06 R1 17.742			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	24-Mar-2013		
Legal Land Location	NE SEC 7 TWP 8 RGE 20 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-112:41:49, 49:37:59			Data Entry Date	11-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA25			Review Date	07-Apr-2013		
Clear Roadway/Skew	12.4 / 11 deg. (RHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	5,970 / 2012 (A)			Dept. Review Date	22-Apr-2013		
Road Classification	RFD-412.4-130			Follow-Up By			
Detour Length (km)	1						
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CS750					----> 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)	In Advance (Y/N)	At Bridge (Y/N)		
Posted:	Lane	SB	At Junction (Y/N)	In Advance (Y/N)	At Bridge (Y/N)		
Remarks	Not req.						
Hazard Marker At Bridge (Y/N)	No						
Remarks	Not req.						
Other Sign Types	River I.D.						

Utilities (Located at)			
Utility Attachments			
Telephone	West and East row		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		9	9	
Roadway Width (m)	13.000			Approach slabs cracked. - worst @ south
Approach Bump		6	6	
Guardrail (Y/N)	Yes			7.6m @ NW. Wrong lap at NE but offset from road shoulder.
Guardrail		5	5	
Length (m)	30.000			Not thriebeam
Current Standard (Y/N)	No			
Termination Type	TURNDOWN			
Drainage		7	7	
Approach Road General Rating		9	9	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 4 Spans, Lengths(m): 10-12-12-12, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(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	Wide cracks on approach slabs, narrow map cracks at random on deck. Medium width longitudinal cracks in deck. 2 small pockets of missing ACP.
(Material Type : CONCRETE)					
(Thickness(mm) : 150)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Galv. buffers. SE corner is banging and delaminated at shoulder 3.5m section.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(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)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			7	7	Spalls at drains @ NE - minor.
Last Complete Inspection Date		24-Mar-2013			
Cracking (Y/N)		No			
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	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) : 750)						
(Width(mm) : 600)						
Backwalls/Breastwalls				N	N	Not visible behind girders
Greatest Height (m)		0.75				
Wingwalls				8	8	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Buried	
Last	1	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				7	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 : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 600)						
(Total Number of Bearing Piles : 6:6:6)						
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)		5.00				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				7	7	Galvanized pipe
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	6	South pier bent out of plumb approx. 2-3 degrees
Scour		N	N	Water too deep
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				45 degree turn 40m D/S.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
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		7	7	
(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							
SEAL CURBS							
PATCH DECK	2013	Seal approach and deck cracks, patch 2 small pockets in 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	Repair 3.5m long section of buffer angle.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	70.3/70.2	Est. Repl. Yr	2053	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	24-Dec-2014		Previous Inspection Date	16-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							