

Bridge Inspection									
Bridge File Number	09202 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1973/1973				Lot No.	1			
Bridge or Town Name	LETHBRIDGE				Inspector Name	Garry Roberts			
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	512:02 C1 3.770				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	19-Mar-2012			
Legal Land Location	SW SEC 1 TWP 9 RGE 21 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-112:43:36, 49:41:53				Data Entry Date	12-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA25				Review Date	23-Mar-2012			
Clear Roadway/Skew	9.1 / 30 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,290 / 2011 (A)				Dept. Review Date	17-Apr-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 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	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 required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	South curb - 2 conduits. 1 Telus mounted on rail posts, the other along girder.				Gas	South ROW.			
Power					Municipal				
Others					Problem (Y/N)	Yes			
Remarks	1 line bent out of shape.								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm entrance @ NE corner.				
Vertical Alignment			9	9					
Roadway Width (m)	9.500								
Approach Bump			5	6					
Guardrail (Y/N)	Yes				No turndowns. Wrong lap at NW and SE but well off roadway.				
Guardrail			6	5	Not thriebeam.				
Length (m)	3.800								
Current Standard (Y/N)	No								
Termination Type	Turnout								
Drainage			5	6					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Primary Span : HC, 1 Spans, Lengths(m): 10.1, A-Ident Number:)						
Special Features						
Special Feature				X		
(Type :)						
Special Feature				X		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface				7	8	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top				N	N	
Deck Rideability				7	7	
Deck Joints				N	N	
Bump (Y/N)		No		Paved over.		
Deck Drainage				8	7	
Drains Clogged (Y/N)		No				
Curbs/Median				6	6	
(Curb Type : Standard)						
Scaling (Percent Area)		15		Small spall NW & SW.		
Bridge Rail				7	7	
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				7	7	
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating				7	5	
(Type : GALVANIZED)						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last				5		
Now	0	0	0	0		
Girders				3	5	
Last Complete Inspection Date		19-Mar-2012		#6 from South, roof spall, 100mm dia @ top. 340 x 340 x 70mm depth. G2, G6, G7, G10 all with wide crack on AZ of one leg only in sound concrete.		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		9				
Lift or Connector Pocket Grouted (Y/N)						
(Number Of Girders : 11)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				3	5	

Substructure					
Bridge Component			Last	Now	Explanation of Condition
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1200)					
(Total Number of Caps/Corbels : 3:3)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels			6	5	
(Type : TREATED TIMBER)					
(Depth(mm) : 356)					
(Width(mm) : 300)					
Backwalls/Breastwalls			7	7	
Greatest Height (m)		2.30			
Wingwalls			6	6	
(Total Number of Bearing Piles : 8:8)					Pile #4 from South, West Abutment, cracked. A1-P2,3,4 and A2-P8 all appear and sound rotted.
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	4	
Piles			5	3	
Paint/Coating			X	X	
Abutment Stability			7	7	
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			X	X	
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					
Pier Stability			X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	Yes			Some old piles in the stream under bridge.
Substructure General Rating		5	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				2 turnouts D/S 15m go East. 1 headgate 30m D/S.
(D/S Direction : N)				
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)	1.5			
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	7	

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	2012	Caps and piles and act on results.					
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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	65.0/64.0	Est. Repl. Yr	2015	Maint. Req'd. (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	Glen Mikesh		Previous Assistant's Name	Bernie Roseke			
Next Inspection Date	19-Jun-2015		Previous Inspection Date	22-Apr-2009			
Inspection Cycle (Default) (months)	39						
Comment							