

Bridge Inspection									
Bridge File Number	76285 W-1 Bridge				Form Type	CON			
Year Built/Year Supstr	1968/1968				Lot No.	3			
Bridge or Town Name	LETHBRIDGE				Inspector Name	Garry Roberts			
Located Over	10090:02 R1 0.109				Inspector Class	BR CLS A			
Located On	3:09 L1 3.158				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	01-Dec-2011			
Legal Land Location	SE SEC 1 TWP 9 RGE 22 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-112:51:10, 49:42:19				Data Entry Date	08-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney			
Contract Main. Area	CMA25				Review Date	13-Dec-2011			
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	22,370 / 2010 (A)				Dept. Review Date	10-Jan-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	4								
Allowable Load (t):	Single		Semi		Train				----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span			

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 10090 R1 5.4m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Only N/B lane under bridge											
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'd											

Hazard Marker At Bridge (Y/N)	No										
Remarks											
Other Sign Types	MERGE										

Utilities (Located at)										
Utility Attachments	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE									
Telephone	@ NE & NW				Gas					
Power	Conduits @ all wings and East abut.				Municipal		Manhole SE			
Others	Street lights				Problem (Y/N)		No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	5th ave overpass				
Vertical Alignment			6	6					
Roadway Width (m)		12.000			West exit is 20 mm low				
Approach Bump			7	5					
Guardrail (Y/N)		Yes			-One length flexbeam and concrete parapets at East -Not thriebeam at E and W -Missing bolt at guardrail to bridge rail connection at SE Wrong lap at SW				
Guardrail			4	4					
Length (m)		65.000							
Current Standard (Y/N)		No							
Termination Type		FLARE END							
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CX , 4 Spans, Lengths(m): 19.5-21.9-29.9-21.9, 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			5	5	some segregation and patching @ Outside lane
(Material Type : ACP)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			5	5	Bolted finger cover plates
Temperature (deg. C)		-3			
(Expansion Type : FINGER PLATES)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
10		E			
30		W			
Deck Drainage			4	4	Suspect W trough drain full of silt - dirt on abut. seat. Drains @ bottom of slab
Drains Clogged (Y/N)		Yes			
Curbs/Median			4	4	2m long crk @ S curb @ E span
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	10 post A/B have less than full nut engaged, others are just flush.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girders			X	X	cast slab
Diaphragms/Cross Frame			X	X	
Bearings			X	6	Rocker @ abut Integral @ piers
Temperature (deg. C)		-3			
(Expansion Type : ROCKER BEARING)					
(Fixed Type :)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			6	6	Isolated corrosion stains - worst at south side at west pier Minor cracks @ deck underside
Stains (Percent Area)		1			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CX, 4 Spans, Lengths(m): 19.5-21.9-29.9-21.9, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		8	7	
Piles		N	N	
Paint/Coating		7	6	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	
Traffic Safety Features		7	4	Wrong lap at NEW and SW
Type	GUARDRAIL			
Slope Protection		5	5	Cracked @ W 200mm heave @ Bottom
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING	2012	At west abut backwall through					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Install 3/4 inch by 6 but, nut and washer at SW bridge to gaurdrail connection					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	65.9/65.9	Est. Repl. Yr	2034	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	01-Sep-2013		Previous Inspection Date	26-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							