

Bridge Inspection											
Bridge File Number	76850 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1970/1970					Lot No.	4				
Bridge or Town Name	BALZAC					Inspector Name	Garry Roberts				
Located Over	2:18 L1 0.000;2:18 R1 0.000					Inspector Class	BR CLS A				
Located On	566:04 C1 0.794					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	12-Sep-2011				
Legal Land Location	SE SEC 13 TWP 26 RGE 1 W5M					Data Entry By	Alyssa Boynton				
Longitude, Latitude	-114:00:07, 51:12:45					Data Entry Date	25-Oct-2011				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Ash Morjaria				
Contract Main. Area	CMA29					Review Date	10-Oct-2011				
Clear Roadway/Skew	9.1 /					Dept. Reviewer Name	Tim Davies				
AADT/Year	7,160 / 2010 (A)					Dept. Review Date	28-Oct-2011				
Road Classification	RCU-210-110					Follow-Up By					
Detour Length (km)	6										
Allowable Load (t):	Single	CS1 35			Semi	CS2 61		Train	CS3 84 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.3m, 2 R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks												

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)		No										
Remarks												
Other Sign Types		ROUTE, SPEED.										

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	At east ditch.				Gas					
Power					Municipal					
Others	Light standards				Problem (Y/N)	No				
Remarks										

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	Ltd sight distance on both ends & controlled intersections	
Vertical Alignment		6	6		
Roadway Width (m)		10.300		Wrong lap at SW. Missing 6 splice bolts at NW.	
Approach Bump		6	6		
Guardrail (Y/N)		Yes		Not thriebeam	
Guardrail		4	4		
Length (m)		72.200			
Current Standard (Y/N)		No			
Termination Type		TURNED DOWN ENDS			
Drainage		6	6		
Approach Road General Rating		6	6		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FC, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)						
Special Features						
Special Feature		6	6	Grout is cracked @ underslung beam along centreline Longitudinal strengthening Sp.2- G1, G4, G5		
(Type : UNDERSLUNG DIAPHR)						
Special Feature			7			
(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	Wide spread transverse crack Shallow surface spalls		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top		N	N			
Deck Rideability		7	6			
Deck Joints		8	7			
Temperature (deg. C)		10				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
65	W ABUT					
57	CENTRE					
60	E ABUT					
Deck Drainage		6	6	Retro fit drains.		
Drains Clogged (Y/N)		No				
Curbs/Median		7	5	Vertical crks in parapets @ 400mm spacing. Spall cracks at NW.		
(Curb Type :)						
Scaling (Percent Area)		0				
Bridge Rail		X	X	Coating failed on 50% of South parapet. Pigmented sealer		
(Type :)						
Bridge Rail Posts		X	X			
(Type :)						
Bridge Rail/Posts Coating		4	4			
(Type :)						
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		4	4	Medium width typ chamfer crks @ ends of girders Wide vertical crack with corrosion stains @ NE Exterior girder High load repair at Sp.1 North girder has rough finish		
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 12)						
Diaphragms/Cross Frame		7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)				
Bearings		5	5	Exterior abut. pads deflected but functional. Inside pads visible with binoculars.
Temperature (deg. C)	10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	4	Isolated peeling and staining at abuts and wings.
Abutment Stability		8	8	
Scour/Erosion		X	5	Minor erosion developing along NW wing.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Peeled @ 10% @ shafts
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		6	4	Away 250mm @ West - tar sealed + 80mm @ east. Bottom row is heaved and cracked.
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		6	6	
Grade Separation General Rating		6	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.0/53.3	Est. Repl. Yr	2028	Maint. Req. (Y/N)	No
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	12-Jun-2013		Previous Inspection Date	28-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							