

Bridge Inspection										
Bridge File Number	76566 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1970/1970					Lot No.	2			
Bridge or Town Name	EXSHAW					Inspector Name	Garry Roberts			
Located Over	1:02 L1 22.888;1:02 R1 22.955					Inspector Class	BR CLS A			
Located On	25129:02 C1 0.170					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	08-Feb-2012			
Legal Land Location	NW SEC 14 TWP 24 RGE 9 W5M					Data Entry By	Lauren Korte			
Longitude, Latitude	-115:09:49, 51:02:57					Data Entry Date	13-Mar-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	CMA28					Review Date	22-Feb-2012			
Clear Roadway/Skew	9.1 / 26 deg. (RHF)					Dept. Reviewer Name	Tim Davies			
AADT/Year	100 / 1988 (E)					Dept. Review Date	22-Mar-2012			
Road Classification	RLU-208-100					Follow-Up By				
Detour Length (km)	16									
Allowable Load (t):	Single	CS1 37			Semi	CS2 64		Train	CS3 91	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)				UNDER: 1 L1 6.6m, 1 R1 5.1m									
Posted Vertical Clearance (Y/N)				Yes									
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)		In Advance (Y/N)	Yes	
Remarks		W/B sign missing from bridge.											
Required Load Posting (t)				Single				Semi				Truck Train	
Posted Loading (t)				Single				Semi				Truck Train	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No	At Bridge (Y/N)	No	
Remarks		Not Required											

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

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	FIBRE OPTICS IN MEDIAN @ PIER					Gas			
Power	3 WIRE MAIN 70 m SOUTH					Municipal			
Others						Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Crest curve on bridge Sharp corner at S. end
Vertical Alignment		4	4	
Roadway Width (m)	9.100			Bolt pulled through with 1 broken and 1 split post at NW guardrail and 1 split post at SE. Short splice and missing 4 bolts at NE Not thriebeam
Approach Bump		6	5	
Guardrail (Y/N)	Yes			
Guardrail		3	3	
Length (m)	26.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
Approach Road General Rating		4	4	

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		7	7	Dyiwidag girder strengthening.	
(Type : EXT LATER POST TENS)					
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		7	7		
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	4	Median cover plate at A1 is bent 80mm and torn 100mm in NBL.	
Temperature (deg. C)		-8			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
95		South			
85		C. pier			
110		North			
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		7	7		
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		1			
Bridge Rail		X	X		
(Type :)					
Bridge Rail Posts		X	X		
(Type :)					
Bridge Rail/Posts Coating		X	X		
(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	CORROSION CRACKS @ GIRDERS HAVE BEEN REPAIRED. Minor spall @ SE exterior Medium width vert cracks at end @ SE and typ. chamfer cracks. Narrow cracks avg 300 mm long in bottom of webs at all abut girders. Minor high load damage Sp1 - G7 curb	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
(Number Of Girders : 14)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 36.6-36.6, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	
Bearings		4	4	Several pads are compressed especially curb units. 50% corrosion. NE and NW bearings @ North abut are slid ahead of bottom neoprene pad - marked 140mm @ NE and 71mm @ NW - no change
Temperature (deg. C)	-8			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Corrosion and scaling @ weep draining @ deck underside - Sealed off with concrete overlay with no current leakage
Stains (Percent Area)	5			
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		6	6	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		5	5	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	Staining is previous to joint installation.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	6	Curve and grade East.
Traffic Safety Features		3	3	Wrong lap all ends. 1 post missing at median and 1 split post at North Shoulder.
Type	GUARDRAIL			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		3	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 7 posts-1 post bolt-4 splice bolts					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Repair or replace median coverplate.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Install 6.6m V.C sign on bridge					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	56.6/56.6	Est. Repl. Yr	2025	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	08-Nov-2013		Previous Inspection Date	27-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							