

Bridge Inspection										
Bridge File Number	78123 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1979/1979					Lot No.	2			
Bridge or Town Name	CROSSFIELD					Inspector Name	Garry Roberts			
Located Over	2:18 R1 24.344;2:18 L1 24.345					Inspector Class	BR CLS A			
Located On	MUNICIPAL					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	13-Sep-2011			
Legal Land Location	SE SEC 36 TWP 28 RGE 1 W5M					Data Entry By	Alyssa Boynton			
Longitude, Latitude	-114:00:07, 51:25:52					Data Entry Date	21-Oct-2011			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Ash Morjaria			
Contract Main. Area	CMA29					Review Date	09-Oct-2011			
Clear Roadway/Skew	9.1 / 15 deg. (RHF)					Dept. Reviewer Name	Tim Davies			
AADT/Year	250 / 1995 (E)					Dept. Review Date	28-Oct-2011			
Road Classification	RLU-208G-90					Follow-Up By				
Detour Length (km)	6									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS23									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.4m, 2 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	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	At Bridge (Y/N)	No		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (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			CURVE SIGNS.									

Utilities (Located at)												
Utility Attachments												
Telephone	Throughout area.					Gas						
Power	3 Wires to NE					Municipal						
Others	FIBRE OPTICS @ WEST R/W					Problem (Y/N)	No					
Remarks												

Approach Road												
				<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>						
Horizontal Alignment				5	5	Curves both ends with limited site distance. Shoulders widen out to 13m						
Vertical Alignment				5	5							
Roadway Width (m)			9.100			Missing ACP at NE and NW is encroaching on driving lanes.						
Approach Bump				6	4							
Guardrail (Y/N)			Yes			1 post broken and 8 splice bolts missing st SW. Inproper splice at NW and NE 15 missing splice bolts. 2 Broken post and 11 missing bolts at SE.						
Guardrail				3	3							
Length (m)			99.000			Not thriebeam.						
Current Standard (Y/N)			No									
Termination Type			TURNED DOWN ENDS									
Drainage				3	3	Missing 12m2 ACP and low at NW and SE trapping water from drains. Missing 6m2 at NE and SW.						

Approach Road				
		Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>		5	5	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 39-39, A-Ident Number: A0841-01</b> )				
Special Features				
Special Feature			X	
(Type : )				
Special Feature			X	
(Type : )				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
<b>Last</b>	0	0	0	0
<b>Now</b>	0.0	0.0	0.0	0.0
Wearing Surface		6	6	Some Minor abrasion - 0.5m3 @ NE  65mm total thickness
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )				
(Thickness(mm) : <b>50</b> )				
Deck Top		N	N	
Deck Rideability		7	7	
Deck Joints		7	7	
Temperature (deg. C)		10		
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )				
(Fixed Type : )				
Gap Size (mm)		Gap Location		
35		WEST		
40		EAST		
Deck Drainage		7	7	NO DRAINS, ON GRADE TO EAST
Drains Clogged (Y/N)		No		
Curbs/Median		5	5	VERTICAL CRACKS IN CURB FACE. SCRAPED AREAS FROM GRADER-WATER STOP VISIBLE SE CORNER 0.8 m LONG.
(Curb Type : <b>Standard</b> )				
Scaling (Percent Area)		0		
Bridge Rail		8	7	Missing 1 A/B nut at SE of Sp.1.  Wide load scrapes.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )				
Bridge Rail Posts		3	3	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )				
Bridge Rail/Posts Coating		5	5	
(Type : <b>GALVANIZED</b> )				
Sidewalk		X	X	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 39-39, A-Ident Number: A0841-01</b> )				
<b>Girder/Beam</b>				
Cover Plate		X	X	
Flange		8	8	
Web		8	8	
Stiffeners		8	8	
Splice		8	8	
Weld		7	7	
Diaphragms/Cross Frame		8	8	
Paint Condition		X	X	Weathering steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	7	Pier is fixed.
Temperature (deg. C)	10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	RANDOM TRANSVERSE CRACKS & EFFLORESCENCE.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	Random cracks
Piles		N	N	Buried.
Paint/Coating		5	5	Tar coating
Abutment Stability		8	8	
Scour/Erosion		X	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Crack/spall at north-minor STAINED FROM WEATHERING STEEL.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				Massive shaft
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		6	6	On curve.
Traffic Safety Features		8	8	Thriebeam bullnose.
Type	GUARDRAIL			
Slope Protection		3	3	Cracked & settled at bottom section @ W. 1 section below caps are separating 100mm on both sides Cold patch @ seperation
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		5	6	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 1- 1 7/8" A/B nut					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2011	Patch approx. all approaches, corners approx 40m2					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Re-do splices and replace 2 flexbeam sections and 40 splice bolts. Replace 1 post at SW.					
OTHER ACTION	2012	Repair approx. 5m2 concrete slope protection. - Fill gaps both ends.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>70.3/66.8</b>	Est. Repl. Yr	2030	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	13-Jun-2013		Previous Inspection Date	14-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							