

Bridge Inspection										
Bridge File Number	77910 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1984/1984				Lot No.	2				
Bridge or Town Name	CROSSFIELD				Inspector Name	Garry Roberts				
Located Over	2:18 L1 29.554;2:18 R1 29.553				Inspector Class	BR CLS A				
Located On	25118:02 C1 0.227				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	07-Sep-2011				
Legal Land Location	SE SEC 14 TWP 29 RGE 1 W5M				Data Entry By	Alyssa Boynton				
Longitude, Latitude	-114:01:32, 51:28:29				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	9.8 /				Dept. Reviewer Name	Tim Davies				
AADT/Year	720 / 1995 (E)				Dept. Review Date	28-Oct-2011				
Road Classification	RLU-208-100				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:	MS300									----> 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)	5.4	In Advance (Y/N)	Yes	
Remarks		Not req.											
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													
Hazard Marker At Bridge (Y/N)		No											
Remarks													
Other Sign Types		ROUTE, TOWN DIRECTION											

Utilities (Located at)									
Utility Attachments									
Telephone	At south west corner.				Gas				
Power	Cross rd. 100 m W. 3 wire.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Limited site distance with ramp & jct. both ends.
Vertical Alignment		6	6	
Roadway Width (m)		10.000		30mm low East.
Approach Bump		4	5	
Guardrail (Y/N)		Yes		Missing 4 splice bolts at NE.
Guardrail		3	4	
Length (m)		26.200		Not thriebeam
Current Standard (Y/N)		No		
Termination Type		TURNED DOWN ENDS		
Drainage		4	4	Broken concrete trough drain at NE. Gaps along approach curbs and at SW trough prohibit drainage.
Approach Road General Rating		6	6	

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : CBT, 2 Spans, Lengths(m): 34-34, 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			6	5	Longitudinal cracks at 1.2 m for full length of deck. SEVERAL TRANSVERSE CRACKS OVER PIER.			
(Material Type : CONCRETE)								
(Thickness(mm) : 50)								
Lateral Connection Problem (Y/N)	Yes							
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			7	7	LEAKAGE @ CURB COVER PLATES			
Temperature (deg. C)		28						
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))								
(Fixed Type :)								
Gap Size (mm)		Gap Location						
70		West						
65		East						
Deck Drainage			6	6	One retrofit drain @ NW @ span #2.			
Drains Clogged (Y/N)		No						
Curbs/Median			4	5	1 broken area at west end north curbs - minor. Vertical cracks @ posts @ exterior and longit cracks on exteriors			
(Curb Type : Standard)								
Scaling (Percent Area)		0						
Bridge Rail			8	8				
(Type : BRIDGE TUBE)								
Bridge Rail Posts			8	8				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			7	6				
(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	CRACKING IN TOP CHAMFER TYP. FROM END DIAPHRAGM. AVG 1.5 m ACCUMMULATED LENGTH @ 0.3 mm WIDE. MARKED & DATED @ SW & NE. NO CHANGE FROM PREV. minor high load break @ NW exterior girder			
Cracking (Y/N)		Yes						
Spalling (Percent Area)		0						
(Number Of Girders : 18)								

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CBT, 2 Spans, Lengths(m): 34-34, A-Ident Number:)				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	
Temperature (deg. C)	28			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Crack at poured connection over piers.
Stains (Percent Area)	1			
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		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		5	5	Minor scaling and delams. at inside SW wall.
Piles		N	N	Buried.
Paint/Coating		5	4	Minor scaling at SE.
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	Map cracking throughout pier shafts with minor collision damage.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	6	Pigmented sealer.
(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		8	8	
Traffic Safety Features		8	8	Median Bullnose.
Type	Thriebeam			
Slope Protection		3	4	Pulled away 90 mm at top & down 25 mm. Bottom 250mm of west slope protection is broken full width. But appears stable and no change.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		3	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	2012	GFE longitudinal cracks- approx. 420 lin. m					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Seal gaps at top of both slope protection- repair toe of west slope.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2012	Patch exterior girders @ NW, SW, SE					
OTHER ACTION	2012	Improve drainage at SW - seal gaps.					
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	59.1/56.2	Est. Repl. Yr	2033	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	07-Jun-2013		Previous Inspection Date	14-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							