

Bridge Inspection							
Bridge File Number	75744 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1965/1965			Lot No.	2		
Bridge or Town Name	CROWSNEST			Inspector Name	Garry Roberts		
Located Over	CPR			Inspector Class	BR CLS A		
Located On	3:02 C1 0.408			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	28-Nov-2011		
Legal Land Location	SE SEC 12 TWP 8 RGE 6 W5M			Data Entry By	Erin Roberts		
Longitude, Latitude	-114:41:20, 49:37:46			Data Entry Date	05-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA26			Review Date	07-Dec-2011		
Clear Roadway/Skew	13.4 / -25 deg. (LHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	6,470 / 2010 (A)			Dept. Review Date	10-Jan-2012		
Road Classification	RAU-213-120			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 58 GIRDER	Semi	CS2 74 GIRDER	Train	CS3 97 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)				No								
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											
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				Not required.								
Other Sign Types				HS20								

Utilities (Located at)				
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE			
Telephone	Conduit at North fascia girder at North r/w and under North curb.		Gas	
Power			Municipal	
Others	Telegraph lines 20 m west. Fibre optics @ North r/w.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Grade to the west and on a curve, super elevated.
Vertical Alignment		6	6	
Roadway Width (m)		13.400		1 cracked post @ SE. Wrong lap at NE and SW. Not thriebeam
Approach Bump		4	5	
Guardrail (Y/N)		Yes		
Guardrail		3	4	
Length (m)		99.000		
Current Standard (Y/N)		No		
Termination Type		Turn Down		
Drainage		5	5	
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 7-18.3-7, A-Ident Number: A0468-01)						
Special Features						
Special Feature						
(Type :)						
Special Feature						
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface				4	5	Some random cracks & ravelling.
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top				N	N	Paved over
Deck Rideability				5	5	
Deck Joints				4	4	6 plow guards missing at A1 and A2. 1 plow guard missing at P1.
Temperature (deg. C)		3				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
85		W abut				
70		W pier				
70		E pier				
75		E abut				
Deck Drainage				4	4	1 weep tube broken @ NW corner. Drains on grade.
Drains Clogged (Y/N)		No				
Curbs/Median				5	5	Abrasion throughout.
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail				6	6	Minor damage to 2 sections. 1 AB nut fully engaged on South rail. Missing 1 A/B nut Sp.1 and 1 at Sp.2 both at North rail.
(Type : STEEL VERTICAL BAR)						
Bridge Rail Posts				3	3	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				7	6	
(Type :)						
Sidewalk				X	X	
Girder/Beam						
Cover Plate				7	7	Sag of 10 to 15mm east at center span.
Flange				7	7	
Web				7	7	Pin connection
Stiffeners				7	7	
Splice				X	X	
Weld				7	7	
Diaphragms/Cross Frame				7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 7-18.3-7, A-Ident Number: A0468-01)				
Paint Condition		4	4	Some corrosion at bottom flanges and hangers and pier diaphragms and girders at exterior
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		4	5	Exp. at A2 and P1.
Temperature (deg. C)	3			Moderate corrosion at A1- B4 and B7
(Expansion Type : SLIDING PLATE)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	PVC drains along North 1/2. Corrosion stains at North exterior.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		5	5	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		8	7	Pigmented sealer
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	Rock wall.
(Type : RIP RAP; RIP RAP)				
Bank Stability		8	7	Galvanized retaining wall at SW
Drainage		8	7	
Grade Separation General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 2- 1" diameter A/B nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Install 7 plow guards.					
RESET/ PAINT BEARINGS	2012	Replace bearings.					
REPAINT SUPERSTRUCTURE	2015	Repaint bridge.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2012	Wash and clean backwall drains.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2012	Replace 1 TT post.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	69.6/71.2	Est. Repl. Yr	2026	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	Randy Bredo		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	28-Aug-2013		Previous Inspection Date	18-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							