

Bridge Inspection											
Bridge File Number	75677 -1 Bridge					Form Type	SG				
Year Built/Year Supstr	1964/1964					Lot No.	2				
Bridge or Town Name	KAVANAGH					Inspector Name	Wade Nanninga				
Located Over	2:30 R1 26.563;2:30 L1 26.562					Inspector Class	BR CLS A				
Located On	25110:02 C1 0.253					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	25-Apr-2013				
Legal Land Location	NW SEC 33 TWP 48 RGE 25 W4M					Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-113:35:55, 53:11:32					Data Entry Date	03-May-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA11					Review Date	01-May-2013				
Clear Roadway/Skew	10.4 / -8 deg. (LHF)					Dept. Reviewer Name					
AADT/Year	500 / 2013 (E)					Dept. Review Date					
Road Classification	RLU-208-100					Follow-Up By					
Detour Length (km)	10										
Allowable Load (t):	Single	CS1 64 GIRDER			Semi	CS2 78 GIRDER		Train	CS3 85 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.1m, 2 R1 5.1m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.1	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			Not required.									
Other Sign Types			Warning, Information.									

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power	2 wires to north approx 50m.					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curve, reduced speed 60 km/hr. Poor stopping sight distances for on/off ramps, limited sight distances.
Vertical Alignment		5	5	
Roadway Width (m)	9.600			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		4	6	
Length (m)	75.000			
Current Standard (Y/N)	Yes			
Termination Type	Turned Down			
Drainage		7	7	New concrete drain troughs installed in 2006.
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 4 Spans, Lengths(m): 13.1-30-30.8-13.1, A-Ident Number: A0426-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface			6	6	FRHPC overlay in 2006. Random narrow transverse cracks. Concrete to grade.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			3	6	Type I - stripseal. (West gland few tears - photo. - Jul/2011) Joints filled with dirt.	
Temperature (deg. C)		13				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
78		East abutment - Gland				
70		West abutment - Gland				
Deck Drainage			6	6	(Ponding along North gutter.- Jul/2011) No deck drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Alberta survey marker @ SE corner. MEDium cracks with rust staining @ NW corner. 30mm wide x1.3m long spall midspan @ base of curb.	
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail			6	5	There are 7 sections of bridgerail with bent vertical slats.	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			6	6		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	5	Girders in middle spans have negative camber and ~25mm sweep to south. High load scuffs on SBL. North girder. (Span 2 girder 2 plate 1 East end has a 18mm non terminated crack in return weld at end of plate.- Jul/2011)	
Flange			6	5		
Web			7	7		
Stiffeners			X	X		
Splice			8	8		
Weld			7	7		
Diaphragms/Cross Frame			6	6	End diaphragms replaced in 2006.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 4 Spans, Lengths(m): 13.1-30-30.8-13.1, A-Ident Number: A0426-01)				
Paint Condition		4	4	Rusting in bottom flanges.
(Colour Description : YELLOW)				Yellow.
(Colour Code : 13538)				
Touchup Required (Y/N)	No			
Bearings		6	6	NW corner A/B nuts not tight. AB in bearing 3 @ P3 not tight.
Temperature (deg. C)	13			
(Expansion Type : SLIDING PLATE;ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Random transverse narrow cracks with rust stains est 3.0m oc under SP3 curbs. Rust stained spot SP3 North side. Wide transverse cracks with rust stain SP1.
Stains (Percent Area)	2			Several delams with rust staining in SP1.
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		5	5	Few vertical wide cracks.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Mediun crack N end at P1.
Bearing Seats/Caps		7	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				2 columns/pier
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Type 3 sealer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	
Type	Guardrail			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair West gland - if not done.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
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) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	66.6/66.6	Est. Repl. Yr	2040	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	25-Jan-2015		Previous Inspection Date	14-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							