

Bridge Inspection											
Bridge File Number	75754 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1964/1964					Lot No.	2				
Bridge or Town Name	PONOKA					Inspector Name	Owen Salava				
Located Over	2:26 L1 40.872;2:26 R1 40.878					Inspector Class	BR CLS A				
Located On	25114:02 C1 0.311					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	08-Mar-2013				
Legal Land Location	SW SEC 27 TWP 42 RGE 26 W4M					Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:39:48, 52:38:19					Data Entry Date	26-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien				
Contract Main. Area	CMA17					Review Date	16-Mar-2013				
Clear Roadway/Skew	10.4 / -11 deg. (LHF)					Dept. Reviewer Name	Chris Black				
AADT/Year	320 / 2009 (E)					Dept. Review Date	28-Mar-2013				
Road Classification	RLU-210G-90					Follow-Up By					
Detour Length (km)	10										
Allowable Load (t):	Single	CS1 50 GIRDER			Semi	CS2 61 GIRDER		Train	CS3 80 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20										----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)		UNDER: 2 L1 5.4m, 2 R1 5.4m											
Posted Vertical Clearance (Y/N)													
Posted:	Lane	NB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.5	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)		In Advance (Y/N)		At Bridge (Y/N)						
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Remarks		Not required.											

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

Utilities (Located at)													
Utility Attachments													
Telephone							Gas						
Power							Municipal						
Others							Problem (Y/N)	No					
Remarks													

Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				5	5	Curve both directions - no passing. Top of crest curve. Paved approx. 300m in both directions.							
Vertical Alignment				5	5								
Roadway Width (m)				10.300									
Approach Bump				6	6	Not thrie beam; non-standard transition.							
Guardrail (Y/N)				Yes									
Guardrail				5	5								
Length (m)				60.000									
Current Standard (Y/N)				No									
Termination Type				TURNED DOWN									
Drainage				6	6								
Approach Road General Rating				5	5								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 4 Spans, Lengths(m): 13.4-27.1-27.1-13.4, 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	5.0	0.0	0.0	0.0	
Wearing Surface			6	6	Narrow/med. longitudinal and transverse cracking.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			3	N	(Leaking at SE corner.27Jan07). (A2 gland torn in WBL & EBL (photos). 16Sep2011) - Unable to verify; full of sand/gravel.
Temperature (deg. C)		-10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
64	West				
60	East				
Deck Drainage			3	6	No deck drain except @ abut.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	0.3 mm transverse cracks @ 1m spacing. Small spall at SW wing.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	4 bent vert. @ 1st panel @ NW - no problem. N panel 6 minor bends; S panel 10 minor bends. SE rail anchorage has delaminated parapet concrete on top. One nut sitting up 12mm @ 9th post from E @ N side. Both nuts on A/B at S6 from W backing out. Bridgerail post grout pad delam 30% typical.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
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			5	5	Crack behind shoe plate - typical - photo. Small chip in bottom of S2G5 leg due to HLD. S1G5 narrow shear cracks previously epoxy injected.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 16)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 13.4-27.1-27.1-13.4, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	Abutment bearing grout pads deteriorating.
Temperature (deg. C)	-10			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			Bearings rusting on surfaces. Overexpanded 25 mm at abuts.
Deck Underside		6	6	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Cracking under S1G5 bearing (photo).
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	Minor chip and scale on legs of W pier.
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		8	8	
Type	GUARDRAIL			
Slope Protection		4	4	Pulled away 90mm @ W breastwall. Top flat section 1.2m wide broken and severely scaled. Minor buckling @ toe of West slope protection.
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		7	7	
Grade Separation General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Tighten loose anchor bolt nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace leaking E abut jnt gland, if not yet done.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch seat at A1 under S1G5.					
OTHER ACTION	2013	Repair concrete slope protection at A1.					
OTHER ACTION	2013	Seal backwall/seat, patch crack under S1G5 at NW corner.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	61.8/60.6	Est. Repl. Yr	2031	Maint. Req. (Y/N)	No
Special Comments for Next Inspection				Department Comments			
Maintenance Reviewed By				Date	Estimated Total 0		
Proposed Long-Term Strategy	Low AADT on bridge, suspect little if any salt. Review CSE testing. Consider epoxy injection at delam areas. Bridge should be ok until 2040 with normal maintenance. RS						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					

Next Inspection Date	08-Dec-2014	Previous Inspection Date	16-Sep-2011
Inspection Cycle (Default) (months)	21		
Comment			