

Bridge Inspection							
Bridge File Number	75651 S-2 Bridge			Form Type	SG		
Year Built/Year Supstr	1964/1964			Lot No.	2		
Bridge or Town Name	PONOKA			Inspector Name	Owen Salava		
Located Over	53:08 L1 0.000;53:08 R1 0.000			Inspector Class	BR CLS A		
Located On	2:26 L1 45.164			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	22-Feb-2013		
Legal Land Location	SW SEC 1 TWP 43 RGE 26 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:39:06, 52:40:33			Data Entry Date	11-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA17			Review Date	27-Feb-2013		
Clear Roadway/Skew	15.9 / 15 deg. (RHF)			Dept. Reviewer Name	Chris Black		
AADT/Year	23,260 / 2011 (A)			Dept. Review Date	14-Mar-2013		
Road Classification	RFD-412.4-130			Follow-Up By			
Detour Length (km)	1						
Allowable Load (t):	Single	CS1 60 GIRDER	Semi	CS2 76 GIRDER	Train	CS3 90 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20				----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)		UNDER: 53 L1 5.1m, 53 R1 5.1m										
Posted Vertical Clearance (Y/N)												
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)		Lane	WB	On Bridge (m)	5.1	In Advance (Y/N)	No
Remarks												
Required Load Posting (t)		Single		Semi		Truck Train						
Posted Loading (t)		Single		Semi		Truck Train						
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Remarks												

Hazard Marker At Bridge (Y/N)	No										
Remarks	Not required.										
Other Sign Types											

Utilities (Located at)				
Utility Attachments				
Telephone	SW		Gas	
Power	3 wire 6 m N. of end of bridge, underground.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	
Vertical Alignment		7	7	
Roadway Width (m)	15.200			(Potholes along S abut paving lip. 20Jul2012).
Approach Bump		7	7	
Guardrail (Y/N)	Yes			No rail at SE corner.
Guardrail		7	7	
Length (m)	90.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		5	5	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 13.1-26.5-13.1, A-Ident Number: A0429-02)					
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	10.0	0.0	0.0	0.0	
Wearing Surface			5	5	(Transverse cracks width of structure at midspan & pier locations. Longitudinal cracks. 27Jan07). Chipsealed, worn E lane at A2.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Missing 10 plow deflectors at A1, 6 at A2. (Potholes approach roadside along paving lip at S end. 13Jul2011) - Snow covered.
Temperature (deg. C)		2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
70		N. abut			
80		S. abut			
Deck Drainage			6	4	Drain pipe broken above girder flange.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	0.3 mm wide transverse cracks 1 to 2m spacing. Spalls along curb fascia; many at E control jnts. Spalled at W, post 3.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Top rail damaged, functioning, at W post 7. Retrofit rail installed.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			7	5	25mm sag in center span; sprayed with hydraulic oil. EBL HLD over center lane, defect approx 30m E, 20mm up. S1G7 has haunch spall near A1. G1,3,7 flange & web damage.
Flange			5	4	
Web			5	4	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			5	5	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 13.1-26.5-13.1, A-Ident Number: A0429-02)				
Paint Condition		7	7	Blue.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		6	6	Pier 2 is fixed. 6 AB nuts left high but O.K. 25% corrosion with some pitting @ abutments.
Temperature (deg. C)	2			
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Corrosion stains & spalls @ weep drain locations. Corrosion staining @ W side S1-2. S3 has spall btwn G1 & 2. Efflorescence @ transverse cracks; sprayed with hydraulic oil.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			Skew pressures.
Horizontal (Y/N)	Yes			
Superstructure General Rating		5	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		8	7	
Abutment Stability		6	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(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		9	9	
Traffic Safety Features		7	7	Steel post median rail.
Type	GUARDRAIL			
Slope Protection		3	3	Concrete buckled or overlapping at base. A1 280mm gap to abut. A2 185mm gap to abut. 110mm gap at slope top.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	4	Concrete slope jammed against pier columns.
Drainage		8	8	
Grade Separation General Rating		7	4	

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	2013	Patch curb spalls & spall at post.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2013	Heat straighten & grind smooth where necessary; S2G1,3,7 over EBL.					
WASHING	2013	Wash hydraulic oil from girders & deck.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Install 16 plow defectors @ abut joints.					
OTHER ACTION	2013	Repair concrete slope protection.					
OTHER ACTION	2013	Patch potholes at S abut lip, if not yet done.					
OTHER ACTION	2013	Replace broken deck drain.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	66.4/59.4	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	22-Nov-2014		Previous Inspection Date	13-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							