

Bridge Inspection							
Bridge File Number	75535 N-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	BATTLE RIVER, 5, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	2:26 R1 43.044			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	08-Mar-2013		
Legal Land Location	SE SEC 34 TWP 42 RGE 26 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:39:40, 52:39:28			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	12.2 /			Dept. Reviewer Name	Chris Black		
AADT/Year	23,260 / 2011 (A)			Dept. Review Date	28-Mar-2013		
Road Classification	RFD-412.4-130			Follow-Up By			
Detour Length (km)	1						
Allowable Load (t):	Single	CS1 37 GIRDER	Semi	CS2 53 GIRDER	Train	CS3 73 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information							
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	Not required.						
Hazard Marker At Bridge (Y/N)	No						
Remarks	Not required.						
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		8	8	Curve to South. Grade rise North of bridge.
Vertical Alignment		7	7	
Roadway Width (m)	11.600			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			S end only.
Guardrail		9	9	
Length (m)	76.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		6	6	
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PQ, 3 Spans, Lengths(m): 15.8-16.8-15.8, 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			4	6	ACP starting to deteriorate N abut paving lip.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	6	
Temperature (deg. C)		-10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
85		N. abut			
70		S. abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Spalling btwn control jnts, 2 locations, exposing steel in S3 West curb - photos.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Minor accident damage to E1 & E2 panels with some bent vertical - no problem. Retrofit rail installed.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	11	0	0	0	
Now	0	0	0	0	
Girders			4	4	U/S of top flange in S3G1 rust staining & cracking in 3 localized spots. Delam started near pier, S3G1. Localized spot rusting in girder underside at connectors.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 33)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PQ, 3 Spans, Lengths(m): 15.8-16.8-15.8, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Med. scaling & cracking S1G1,2 @ abut diaphragm-photo. S1G11 diaphragm has spall at A1.
Bearings		5	5	Superficial corrosion on masonry & shoe plates - typical.
Temperature (deg. C)	-10			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type :)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		X	5	Localized spot rusting in girder underside at connectors.
Stains (Percent Area)	0			
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	Minor drip gullies.
Piers/Bents				
(Type : PIER-SOLID)				Cracking P1 both ends under bearing anchor bolts (vertical narrow - med crack 500mm long.)
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		5	4	25% corrosion with some pitting.
(Colour Description :)				Silver.
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Minor headslope erosion - no problem.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Rehab required on curbs - S3 1m3 O/H-V.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2015	Paint nose plates.					
OTHER ACTION	2013	Patch S3G1 delam, 0.1m3 OH-V.					
OTHER ACTION	2013	Assess repair options for pier cracks under bearings; possibly inject with epoxy.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	55.8/55.8	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Installation of retrofit bridge rail programmed for 2008. Bridge should be adequate until 2025. CB						
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							