

Bridge Inspection										
Bridge File Number	09899 W-1 Bridge				Form Type	SG				
Year Built/Year Supstr	1955/1955				Lot No.	2				
Bridge or Town Name	ROCHFORD BR				Inspector Name	Kris Bosters				
Located Over	PADDLE RIVER, 8.11.84.30, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	43:18 L1 9.174				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Oct-2011				
Legal Land Location	SW SEC 8 TWP 57 RGE 7 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-115:01:05, 53:54:25				Data Entry Date	25-Oct-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA12				Review Date	22-Oct-2011				
Clear Roadway/Skew	13.4 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	6,630 / 2010 (A)				Dept. Review Date	26-Oct-2011				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 50 GIRDER	Semi	CS2 65 GIRDER	Train	CS3 78 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	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
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	Curve									
Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	South & North sides of bridge.				Gas	Crossing 100m West.				
Power	3 lines North r/w.				Municipal					
Others					Problem (Y/N)	Yes				
Remarks	Temporary cable strung across North rail.									
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Curve East approach.					
Vertical Alignment			6	6	Bridge in sag curve.					
Roadway Width (m)	13.200				ACP settled 25mm and cracked at SW approach slight bump.-photo					
Approach Bump			7	5						
Guardrail (Y/N)	Yes				Missing BR to GR bolt Sw corner.-photo					
Guardrail			4	7						
Length (m)	62.800				Bulb @ SW.					
Current Standard (Y/N)	Yes									
Termination Type	Turned Down									
Drainage			7	7						
Approach Road General Rating			6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 21.9-27.4-21.9, A-Ident Number: A0196-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	40				
Now					
Wearing Surface			8	5	Random narrow map cracking and medium transverse cracks.
(Material Type : CONCRETE)					
(Thickness(mm) : 80)					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			X	X	No deck joints. Medium long cracks in paving lips.
Temperature (deg. C)		12			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
10		W. abut.			
0		E. abut			
Deck Drainage			7	4	500mm wide x 100mm deep erosion gullies under deck drains at E headslope.
Drains Clogged (Y/N)		No			
Curbs/Median			N	5	Spall under South rail post, 2nd from East. Light scaling along the curbs. Transverse and longitudinal cracks along the curbs.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	(Few A/B with insufficient thread. Cracked curb under S3 South rail post. 07/Apr/2008)
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			N	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			7	7	9 girders/span. Spans have slight negative camber.
Flange			7	7	
Web			7	7	
Stiffeners			X	X	
Splice			7	7	
Weld			7	7	
Diaphragms/Cross Frame			6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 21.9-27.4-21.9, A-Ident Number: A0196-01)					
Paint Condition		5	5	Approx 10% paint failure. Green.	
(Colour Description :)					
(Colour Code :)					
Touchup Required (Y/N)	No				
Bearings		4	1	Girders on ends jammed into backwall. S1G5 bearing missing A/B nuts (2). Exp @ A1 and A2.	
Temperature (deg. C)	10				
(Expansion Type : ROCKER BEARING)					
(Fixed Type : SLIDING PLATE)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	5	Cracks on underside have salt stains. Plywood forms still in place on mid span. Numerous patches under deck. Old spalls near girder flanges.	
Stains (Percent Area)	1				
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		
(Type : CONCRETE)					
Backwalls/Breastwalls		4	4	A2 damaged by jammed girders - photo.	
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		X	X		
Abutment Stability		7	7		
Scour/Erosion		5	5		
Piers/Bents					
(Type : PIER-SOLID)					
Bearing Seats/Caps		6	6		
(Type : CONCRETE)				Additional bearing area cast onto outside face of P1 and P2.	
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		X	X		
(Colour Description :)					
(Colour Code :)					
Pier Stability		6	6		
Scour		N	N		
Debris (Y/N)	No				
Substructure General Rating		5	5		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : CONCRETE; CONCRETE)		6	6	Concrete slope protection on top 1/2 of headslope, benched & armoured with Class II rock below concrete slope protection.
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2011	Replace BR post cap @ SE.				
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK						
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS						
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2011	Replace BR to GR bolt @ SW.				
OTHER ACTION	2011	Patch ACP at SW approach.				
OTHER ACTION	2011	Have temp cable removed from rail.				
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	66.7/65.3	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Monitor girder jamming @ East abutment.	Department Comments	
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Maintenance Reviewed By		Date		Estimated Total	0
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Proposed Long-Term Strategy	
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On 3-Year Program (Y/N)	
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Proposed Action	
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Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	Shane Hall
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Next Inspection Date	03-Jul-2013	Previous Inspection Date	15-Dec-2009
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Inspection Cycle (Default) (months)	21
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Comment	
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