

Bridge Inspection										
Bridge File Number	07938 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1978/1978				Lot No.	2				
Bridge or Town Name	BROWNFIELD				Inspector Name	Jason Saly				
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	872:04 C1 35.637				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	09-Mar-2011				
Legal Land Location	NW SEC 32 TWP 39 RGE 10 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	::, ::				Data Entry Date	29-Mar-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA21				Review Date	19-Mar-2011				
Clear Roadway/Skew	10.7 / -10 deg. (LHF)				Dept. Reviewer Name	Chris Black				
AADT/Year					Dept. Review Date	06-Apr-2011				
Road Classification	RCU-209-110				Follow-Up By					
Detour Length (km)	25									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS23								----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No		
Remarks										
Hazard Marker At Bridge (Y/N)	Yes									
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	Long winding curves to North 400 m. Long steep grades of approx 6% in both directions.							
Vertical Alignment		5	5								
Roadway Width (m)	9.600										
Approach Bump			7	7							
Guardrail (Y/N)	Yes		Mostly covered by snow. Insufficient length + posts.								
Guardrail										6	N
Length (m)	30.400										
Current Standard (Y/N)	No										
Termination Type	TURNED DOWN										
Drainage			7	N							
Approach Road General Rating		5		5							

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : FM, 3 Spans, Lengths(m): 10-38-10, A-Ident Number:)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.		
Last	0	0	0	0			
Now	15.0	0.0	0.0	0.0			
Wearing Surface			6	6	2 key cracks @ each end span. 3 key cracks @ center span.		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) : 50)							
Lateral Connection Problem (Y/N)	Yes						
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			3	3	(Scaling at edges of waterstops on curb faces at abut joints. 18Jun2008). Pier joints leak at gutters. P1 is compression seal with caulking at P1 curbs. Both curb coverplates at N pier are broken. W cover plate worst condition. Allow leakage onto N pier.		
Temperature (deg. C)		-11					
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))							
(Fixed Type : COMPRESSION SEAL (ACME SEALS))							
Gap Size (mm)		Gap Location					
67		Pier 2					
8		Pier 1					
Deck Drainage			4	4	Due to leakage comment + stains @ piers + center span between girders 4 + 5. Also leakage onto P2 due to cover plate damage.		
Drains Clogged (Y/N)		No					
Curbs/Median			7	N	Snow covered.		
(Curb Type : Standard)							
Scaling (Percent Area)		2					
Bridge Rail			7	7	850 mm tube type railing. Cap on 5th post from SE missing.		
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts			4	4			
(Type : POST STEEL;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	0	0	0	0			
Now	0	0	0	0			
Girders			5	4	Typical "FC" cracks in chamfer area of center span girders - narrow width. S3G7 has end girder ck'ng above the N pier. Girder ends are stained.		
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : 21)							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 3 Spans, Lengths(m): 10-38-10, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	
Bearings		7	5	Minor damage to the bearing pads at the N pier.
Temperature (deg. C)	-11			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Staining btwn G4-5 @ center span.
Stains (Percent Area)	2			
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				40 in diameter pipe piles. Rust spot at end of P2 W.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Conc finish flaking under gutters.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		9	N	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		5	N	
HWM (m below Top of Curb)	5.0			
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
GALVANIZE/PAINT BRIDGE RAIL	2011	Install cap @ SE.					
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Re-attach curb cover plates at P2.					
RESET/ PAINT BEARINGS							
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) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	64.5/63.2	Est. Repl. Yr	2038	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Install lateral stressing & underslung beams at the next rehab.		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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	09-Jun-2014		Previous Inspection Date	18-Jul-2008			
Inspection Cycle (Default) (months)	39						
Comment							