

Bridge Inspection									
Bridge File Number	09204 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1956/1956				Lot No.	2			
Bridge or Town Name	WARBURG				Inspector Name	Wade Nanninga			
Located Over	STRAWBERRY CREEK, 6.112, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	770:04 C1 3.645				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Oct-2012			
Legal Land Location	SW SEC 14 TWP 49 RGE 3 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:20:35, 53:13:30				Data Entry Date	24-Oct-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	22-Oct-2012			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	820 / 2011 (A)				Dept. Review Date	13-Nov-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	70								
Allowable Load (t):	Single	CS1 36 GIRDER		Semi	CS2 52 GIRDER		Train	CS3 74 GIRDER	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
								----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Attached to 4th & 5th guardrail post, not to standard.								
Other Sign Types	Bridge Narrows.								
Utilities (Located at)									
Utility Attachments									
Telephone	West & East r/w - overhead line.				Gas				
Power	2 wires East.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	At bottom of sag curve. Limited sight distances @ crest curves. No passing.				
Vertical Alignment			5	5					
Roadway Width (m)	9.000				Approaches patched.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				NW & SE not attached to bridgerail post.				
Guardrail			6	5	Minor creases.				
Length (m)	23.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	4	Ditch runoff eroding NW corner headslope. Not affecting bridge.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PQ, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			4	4	Chip seal over FRCSF overlay. 5% peeled off on centerline - photo.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 85)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			8	8	
Temperature (deg. C)		10			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
68		N. abutment			
69		Pier 2			
55		Pier 1			
63		S. abutment			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Exterior rust staining caused by rusting tin strip between curb & deck - photo. Plow scrapes in S1 West & East sides. Approx dozen spalls & patch failures.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			6	6	Wide cracks and/or spalls in 60% of posts - photo.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		4	4		
(Type : CONCRETE;CONCRETE)					
Bridge Rail/Posts Coating		5	5		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Girders			6	6	Girders have minor typical cracks/ spalls at shoe plates.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 18)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PQ, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Stains, spall SE.
Bearings		5	5	Bearings are frozen.-05-May-2009 Girders jammed against backwall. 3/4" dia anchor bolts at abutments.
Temperature (deg. C)	10			
(Expansion Type : SLIDING PLATE)				
(Fixed Type :)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		5	5	Stains & efflorescence.
Stains (Percent Area)	1			
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	Delam cracks South abutment & North abutment.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				(8.4m deck to streambed. 99/08/23)
Bearing Seats/Caps		4	4	Spall on South pier - NW corner 600mmx200mm.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				Wide cracks both piers.
Pier Shaft/Piles		7	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Coating peeling on North pier.
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	The south pier has 3.5 m of fill at SE corner and none on north side, uneven pressure.
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	5	Old slides visible U/S & D/S, no problems. Trees growing on north headslope. Old abutments have resulted in 1.2m vertical banks (well above waterline and not a problem).
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		4	5	Old slides & slumping.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	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							
PATCH DECK	2012	Patch chipseal.					
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	2012	Patch spall @ pier 1 - NW 600mmx200mm.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	50.9/52.4	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor NW embankment erosion. North headslope. Monitor delamination cracks in abutments and piers. Monitor curbs & rail posts.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	05-May-2009			
Inspection Cycle (Default) (months)	39						
Comment							