

Bridge Inspection										
Bridge File Number	80644 W-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1986/1986				Lot No.	1				
Bridge or Town Name	VEGREVILLE				Inspector Name	Jason Saly				
Located Over	VERMILION RIVER, 6.5, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	16:24 L1 23.178				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	19-Jul-2012				
Legal Land Location	NE SEC 7 TWP 52 RGE 14 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:02:56, 53:28:37				Data Entry Date	10-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA14				Review Date	28-Jul-2012				
Clear Roadway/Skew	13.2 / 20 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	5,740 / 2011 (A)				Dept. Review Date	13-Aug-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member			
Design Loading:	MS300						---> 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										
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types										
Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power	10 wires OH 120m South of wbd c/l; 3 o/h N r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			8	8	Not thrie beam.					
Vertical Alignment			9	8						
Roadway Width (m)	13.800									
Approach Bump			6	6						
Guardrail (Y/N)	Yes									
Guardrail			8	7						
Length (m)	65.000									
Current Standard (Y/N)	No									
Termination Type	TURNED DOWN									
Drainage			N	5	Gap at NW sealed.					
Approach Road General Rating			8	8						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 1 Spans, Lengths(m): 40, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	60	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		N	4	96m2 of ACP debonding noted in 2011. Transv. & random cracks reflecting through the chip seal coat. Rutting along with small potholes forming in the truck lane.	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		8	7		
Deck Joints		5	5	No evidence of leakage this inspection. Jnts were flooded with deck testing 16Jun2011, no leakage was observed. 5m of cover plates at E abut have been removed & replaced with welded plates (gland is visible). Exp. Fix	
Temperature (deg. C)		21			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
Gap Size (mm)		Gap Location			
92		E. abut			
76		W. abut			
Deck Drainage		3	3	Water is circumventing weep tube @ SE + NW & leaking through girder flange. Resulting in delams.	
Drains Clogged (Y/N)		Yes			
Curbs/Median		N	6	Vertical & transv. cracks every approx 2.5 m.	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail		8	8		
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		8	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)	East end G1 + G12 West end have delams bottom flange from poor deck drainage. G1 + G2 have end block cracks that extend into webs.
Last	0	0	0	2	
Now	0	0	0	2	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 1 Spans, Lengths(m): 40, A-Ident Number:)				
Girders		3	3	All girders have typical DBT hairline cracks in end block @ both ends. The curb units have hairline cracks in bottom 1/4 & carry into web.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 12)				
Diaphragms/Cross Frame		8	8	
Bearings		4	4	G12 anchor bolt broken off at A1. E abut W abut
Temperature (deg. C)				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	7	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		9	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		8	8	
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		N	6	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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										
SEAL CURBS										
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	2012	Redesign deck drainage at corners to eliminate tubes so girders don't deteriorate.								
OTHER ACTION	2012	Patch G1 + G12 delams.-epoxy inject.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.0/60.5	Est. Repl. Yr	2044	Maint. Reqd. (Y/N)	Yes			
Special Comments for Next Inspection	ACP is starting to fail, with rutting & approx. 96m2 of debonding. Structure is in good corrosion condition with an average CSE reading of -0.129m V. Consider installing new ACP/membrane protection system.		Department Comments							
Maintenance Reviewed By			Date			Estimated Total	0			
Proposed Long-Term Strategy	ACP ok BIM inspection Feb 2008. Mill and replace 40mm in 2014. PC									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	19-Apr-2014	Previous Inspection Date	16-Dec-2010							
Inspection Cycle (Default) (months)	21									
Comment										

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						
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	Redesign deck drainage at corners to eliminate tubes so girders don't deteriorate.	Deck rehab programmed	2012		
OTHER ACTION	2012	Patch G1 + G12 delams.-epoxy inject.	Deck rehab programmed	2012		
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.0/60.5	Est. Repl. Yr	2044	Maint. Req'd. (Y/N)	Yes
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Special Comments for Next Inspection	ACP is starting to fail, with rutting & approx. 96m2 of debonding. Structure is in good corrosion condition with an average CSE reading of -0.129m V. Consider installing new ACP/membrane protection system.	Department Comments	Deck rehab programmed 2012
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Maintenance Reviewed By	Andrew Smikles	Date	21-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	ACP ok BIM inspection Feb 2008. Mill and replace 40mm in 2014. PC				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	19-Apr-2014	Previous Inspection Date	16-Dec-2010		

Inspection Cycle (Default) (months)	21
Comment	