

Bridge Inspection										
Bridge File Number	80946 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1987/1987				Lot No.	2				
Bridge or Town Name	VEGREVILLE				Inspector Name	Jason Saly				
Located Over	16:24 R1 25.565;16:24 L1 25.538				Inspector Class	BR CLS A				
Located On	RAMP 96-1 B				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	19-Jul-2012				
Legal Land Location	NW SEC 9 TWP 52 RGE 14 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:00:50, 53:28:44				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	7.6 / -19 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year					Dept. Review Date	13-Aug-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	3									
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 Vert. Clearance Posting (m)	UNDER: 16 L1 5.2m, 16 R1 5.1m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	EB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.1	In Advance (Y/N)	Yes
Remarks	WB has 2 sets of 5.1 advance signs with furthest having 5.3m.											
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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks												
Hazard Marker At Bridge (Y/N)	Yes											
Remarks	At North end only - one way.											
Other Sign Types												

Utilities (Located at)			
Utility Attachments			
Telephone	ROW	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Long curve immediately to South of bridge. Bridge is at top of crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	7.700			Not thrie beam.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	99.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		N	4	Erosion hole @ SE corner.
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 2 Spans, Lengths(m): 42-42, A-Ident Number: A1049-01</b> )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	70	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			6	4	22 full width cracks across deck & centerline longitudinal crack - length of bridge. ACP deteriorated along E gutter. Water ponding length of bridge. The 2011 Deck Testing Report indicated 193m2 of debonded ACP.	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>90</b> )						
Deck Top			N	N		
Deck Rideability			8	7		
Deck Joints			5	5		
Temperature (deg. C)						
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
44		S. abut				
36		N. abut				
Deck Drainage			3	4	Both deck drains are broken at underside of deck.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	4	Deep plow scraps @ NE approach curb. Random aggregate spalls. Vertical curb cracks every est. 0.6m.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		2				
Bridge Rail			8	8		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			8	8		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X	High load damage. Flange up about 15mm Westbound lane & 10 gouges in flange. Minor scrapes in EB girders.	
Flange			5	5		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 42-42, A-Ident Number: A1049-01</b> )				
Paint Condition		8	7	Weathering steel. Rust stains on girder underside is evidence of uneven weathering.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		7	7	(South abutment overexpanded 50mm and North abutment 35mm. 16Dec2010). Some loose nuts/jam nuts on anchor shafts. Several neoprene brgs have minor horizontal cracks at center. Bearings almost fully extended at 18 deg. celsius. Abutments are exp and pier is fixed.
Temperature (deg. C)	18			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		6	6	
Abutment Stability		6	6	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Heavy rust staining @ ends due to girder rust staining. Water is getting onto bottom flange and running down to the pier where it ponds and drains onto pier.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0</b> )				
Pier Shaft/Piles		8	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Masonry Class # finish applied to pier Rust staining from girders, both sides at ends.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		6	4	72.0 m long guardrail. 1 broken post S side of Hwy16 EB.
Type	GUARDRAIL			
Slope Protection		6	5	North end 220mm out and 80 down at c/l; South end, 70 mm out and 60 down at c/l.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		6	6	
Drainage		8	8	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>4</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
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	2012	Extend 2 deck drains to empty in safe locations or abandon and redesign drainage at corners.								
OTHER ACTION	2012	Install flange dams to direct water off of flanges.								
OTHER ACTION	2012	Replace one guardrail post, S side of Hwy16 EB.								
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.7/51.0</b>	<b>Est. Repl. Yr</b>	<b>2044</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>	<b>Estimated Total</b>	<b>0</b>	
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date									
Proposed Long-Term Strategy	2007.01.15 There shall be no reduction of existing vertical clearance with new overlay. Proposed overlay shouldn't be carried under the existing structure without first milling out same depth of ACP.									
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						
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	2012	Extend 2 deck drains to empty in safe locations or abandon and redesign drainage at corners.	At rehab	2012		
OTHER ACTION	2012	Install flange dams to direct water off of flanges.	At rehab	2012		
OTHER ACTION	2012	Replace one guardrail post, S side of Hwy16 EB.	At rehab	2012		
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.7/51.0</b>	Est. Repl. Yr	2044	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Programmed for rehab in 2012		
Maintenance Reviewed By	Andrew Smikles		Date	27-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2007.01.15 There shall be no reduction of existing vertical clearance with new overlay. Proposed overlay shouldn't be carried under the existing structure without first milling out same depth of ACP.					
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			