

Bridge Inspection										
Bridge File Number	74953 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1988/1988				Lot No.	2				
Bridge or Town Name	VILNA				Inspector Name	Wade Nanninga				
Located Over	STONY CREEK, 6.29.1.1, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	28:10 C1 4.240				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	10-Apr-2012				
Legal Land Location	SW SEC 24 TWP 59 RGE 14 W4M				Data Entry By	Lisa Fairhurst				
Longitude, Latitude	-111:58:09, 54:06:40				Data Entry Date	24-Apr-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA07				Review Date	17-Apr-2012				
Clear Roadway/Skew	13.3 / 30 deg. (RHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	2,820 / 2011 (A)				Dept. Review Date	04-May-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	5									
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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
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									

Utilities (Located at)									
Utility Attachments									
Telephone	North & South r/w.				Gas				
Power	3 wires North r/w.				Municipal				
Others	CNR railway 50mm North of c/l.				Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7					
Vertical Alignment			8	8					
Roadway Width (m)	12.600								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Split post @ SE corner.-photo				
Guardrail			4	4					
Length (m)	30.500				No thrie beam				
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			6	6					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SMC, 2 Spans, Lengths(m): 10-10, 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	0.0	0.0	0.0	0.0	
Wearing Surface			5	4	Chipseal over asphalt. 150mm spall in SP1 - photo
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			X	N	
Bump (Y/N)		No			
Deck Drainage			5	5	Stains around drains underside of girders.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Spall off outside curb corner 50 x 25 x 600 near mid North curb.- photo Snowplow scrape NE. Treated with two coats of Duraltone Plus which is approx 25% peeled. Cracks at posts. 3 small spalls @ outside of 3 bridge posts on North curb. West end of North curb badly scaled.-
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	4	4 bolts missing @ splice connection - 2@South and 2 @ NORTH - photo Splice length to short where splice bolts missing.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			6	6	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			4	4	Typical SM diagonal hairline cracks on SP1G1 Typical mid hairline horizontal crack on girder fascia. 40% of girders on caps, not fully bearing.-photo 3 on S surb not grouted.-photo
Last Complete Inspection Date		10-Apr-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			West span is 25mm further south than east - curb patched over pier to accommodate
Horizontal (Y/N)		Yes			
Superstructure General Rating			4	4	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 2700)						
(Total Number of Caps/Corbels : 2:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 310)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		2.45				
Wingwalls				6	6	
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				7	7	
Paint/Coating				4	4	
Painted blue 502-105. Rusting & peeling on cap edges, no paint below normal waterline on piles.						
Abutment Stability				7	7	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 4)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 620)						
(Total Number of Bearing Piles : 8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		2.60				
Bracing/Struts/Sheathing				7	7	
Nose Plate				7	7	
Paint/Coating				4	4	
Lower 1-1.5m not painted, rusting. Painted blue 502-105. Rust below waterline.						
(Colour Description : BLUE)						
(Colour Code : 502-105)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	Yes			Old piles under East span.
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 4 missing splice bolts.					
SEAL CURBS	2012	Patch spalled North curb under post @ 4 locations.					
PATCH DECK	2012	Pothole - fill with coldmix					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Grout curb lift pockets, three.					
OTHER ACTION	2012	Install additional cap stiffeners as required @ next major rehab. (L)					
OTHER ACTION							
OTHER ACTION	2012	Trim old piles under East span.					
OTHER ACTION	2012	Repair broken GR post @ SE corner.					
OTHER ACTION	2012	Paint pier piles at low water @ next major rehab.					
OTHER ACTION	2012	Install shims under girders where req'd.or high strength epoxy					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	55.5/55.5	Est. Repl. Yr	2040	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection				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	Shane Hall	Previous Assistant's Name	
Next Inspection Date	10-Jan-2014	Previous Inspection Date	21-Jul-2010
Inspection Cycle (Default) (months)	21		
Comment			