

Bridge Inspection										
Bridge File Number	09156 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	2				
Bridge or Town Name	STAUFFER				Inspector Name	Owen Salava				
Located Over	NORTH RAVEN RIVER, 3.91.2, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	761:02 C1 6.395				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	31-Jan-2012				
Legal Land Location	SE SEC 2 TWP 37 RGE 5 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:36:03, 52:08:41				Data Entry Date	06-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	22-Feb-2012				
Clear Roadway/Skew	9.1 / 0 deg.				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	570 / 2010 (A)				Dept. Review Date	09-Mar-2012				
Road Classification	RCU-209-110				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:	CS750						---> 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	Mounted on guardrail post; height varies.								
Other Sign Types	Curve.								

Utilities (Located at)										
Utility Attachments										
Telephone	Conduit along West curb fascia.				Gas					
Power	2 wires 25m West, 1 wire crosses Hwy 20m North.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves in road North & South. Parking areas are located @ SW & NE corners for fishing access. Typical approaches North & South. No passing SB. 38.0m @ NW & SE; 15.2m @ NE; 30.4m @ SW. Not thrie beam.
Vertical Alignment		6	6	
Roadway Width (m)	9.100			
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	15.200			
Current Standard (Y/N)	No			
Termination Type	TURN DOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	5	Wearing thin at connector pockets.
(Material Type : CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	Buffer angles - chipseal over.
Bump (Y/N)		No			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Scaling / delam West curb fascia - photo.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			8	8	2 layer. Round.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(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)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			N	8	New precast in 2001.
Last Complete Inspection Date		31-Jan-2012			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 9)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			8	8	

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
(Extended Backwall Piles (Y/N) : N)				Bridge widened in 1984. New caps in 2001.					
(Extended Backwall Piles Spacing(mm) :)									
(Total Number of Caps/Corbels : 5:5)				1 cap, 2 subcaps, 2 extensions caps.					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now	0	0	0				0		
Bearing Seats/Caps/Corbels							8	8	
(Type : TREATED TIMBER)									
(Depth(mm) : 305)									
(Width(mm) : 305)									
Backwalls/Breastwalls							6	6	
Greatest Height (m)		2.50							
Wingwalls				5	5				
(Total Number of Bearing Piles : 8:8)				Outer ring has split off at 2nd pile from E & S abuts. Vertical split in NE & SE end piles; not strutted or anchored (photos).					
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last	0	0	0				0		
Now	0	0	0				0		
Piles							4	4	
Paint/Coating							X	X	
Abutment Stability							6	6	
Scour/Erosion							N	N	
Ice covered.									
Piers/Bents									
(Type :)									
(Total Number of Caps/Corbels :)									
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Bearing Seats/Caps/Corbels				X	X				
(Type :)									
(Depth(mm) :)									
(Width(mm) :)									
(Total Number of Bearing Piles :)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Pier Shaft/Piles				X	X				
Greatest Height (m)									
Bracing/Struts/Sheathing				4	4				
No struts installed @ outer piles - should be strutted.									
Nose Plate				X	X				
Paint/Coating				X	X				
(Colour Description :)									
(Colour Code :)									

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				90 degree bend 15m U/S. 45 degree bend 50m D/S.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Banks are undermining slightly.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2012	Seal curbs.								
PATCH DECK										
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	2012	Install struts at both end piles.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now)	66.7/66.7	Sufficiency Rating (Last/Now)	80.6/70.2	Est. Repl. Yr	2025	Maint. Req. (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	Dave Lam	Previous Assistant's Name								
Next Inspection Date	30-Apr-2015	Previous Inspection Date	14-Sep-2005							
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2012	Seal curbs.	Scheduled in 2014	2014		
PATCH DECK						
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	2012	Install struts at both end piles.	Defer until more maintenance is required.			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	80.6/70.2	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
---	------------------	--	------------------	---------------	------	-------------------	-----

Special Comments for Next Inspection		Department Comments	Currently scheduled in PMA for replacement in 2025. DA
--------------------------------------	--	---------------------	--

Maintenance Reviewed By	Darron Ahlstedt	Date	05-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy					
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Dave Lam	Previous Assistant's Name			
Next Inspection Date	30-Apr-2015	Previous Inspection Date	14-Sep-2005		
Inspection Cycle (Default) (months)	39				

Comment	
---------	--