

Bridge Inspection											
Bridge File Number	75774 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1989/1989				Lot No.	2					
Bridge or Town Name	WANDERING RI				Inspector Name	Wade Nanninga					
Located Over	HOUSE RIVER, 8.11.47, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	63:04 C1 46.850				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	14-Nov-2011					
Legal Land Location	SW SEC 5 TWP 77 RGE 14 W4M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-112:09:09, 55:38:32				Data Entry Date	12-Dec-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA07				Review Date	23-Nov-2011					
Clear Roadway/Skew	13 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	3,800 / 2010 (A)				Dept. Review Date	15-Dec-2011					
Road Classification	RAU-213.4-120				Follow-Up By						
Detour Length (km)	250										
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	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)	No									
Remarks	Not required.									
Other Sign Types	House River, Bridge icy									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power					Municipal					
Others	WSC flow gauge at NW.				Problem (Y/N)	No				
Remarks										

Approach Road											
		Last	Now	Explanation of Condition							
Horizontal Alignment		6	6	At bottom of long horizontal curve to SW. Bridge at the bottom of sag curve. No passing. Limited sight distance both directions.							
Vertical Alignment		6	6								
Roadway Width (m)	13.600										
Approach Bump			7	7							
Guardrail (Y/N)	Yes		No thrie beam. NW - 48.0m; NE - 36.5m; SE & SW - 99.0m. Insufficient length @ NE.								
Guardrail										4	7
Length (m)	36.500										
Current Standard (Y/N)	No										
Termination Type	Turned Down										
Drainage			6	4	Erosion gully at SW -5mx0.3mx0.3m						
Approach Road General Rating		6		6							

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : WG, 3 Spans, Lengths(m): 17.9-21.4-19.5, A-Ident Number: A1126-01)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last							
Now	10.0	0.0	0.0	0.0			
Wearing Surface			6	5	Longitudinal/transverse cracks throughout.		
(Material Type : ACP)							
(Thickness(mm) : 50)							
Deck Top			N	N			
Deck Rideability			7	7			
Deck Joints			6	6	Top filled with tar.		
Temperature (deg. C)		-5					
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
90		South abutment					
85		North abutment					
Deck Drainage			7	7			
Drains Clogged (Y/N)		No					
Curbs/Median			5	N	Transverse crack @ avg 600mm spacing. Light scaling on top of curbs.-10-Mar-2010		
(Curb Type : Standard)							
Scaling (Percent Area)		20					
Bridge Rail			7	7	SE end post accident damage, sheared off top cover.-photo		
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts		4	4				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating		7	7				
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			X	X	7 girders / span.		
Flange			7	7			
Web			7	7			
Stiffeners			8	8			
Splice			8	8			
Weld			8	8			
Diaphragms/Cross Frame			7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 17.9-21.4-19.5, A-Ident Number: A1126-01)				
Paint Condition		5	5	Weathering steel. Scaling on top and bottom of bottom flange & at girder end exterior.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		6	6	S3G2 concrete pad cracked under bearing.
Temperature (deg. C)	-5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL;PINNED BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Medium transverse cracks.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		6	5	Steep headslopes-erosion gully at SW forming.
Piers/Bents				
(Type : PIER-COLUMN)				Delam crack at P2 runs for 0.6m. P1 cap has spall in underside with corroded rebar.-photo
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				P7 in N pier out of plumb-OK
(Total Number of Bearing Piles : 8:8)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		8	8	Steel webbing
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	5	Concrete slope protection on North headslope bottom half. Riprap on bottom of South headslope.
(Type : RIP RAP; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Replace SE end top.					
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	2015	Patch pier caps.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	54.5/53.1	Est. Repl. Yr	2038	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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	14-Aug-2013		Previous Inspection Date	10-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							