

Bridge Inspection													
Bridge File Number	77534 -1 Bridge					Form Type	PSR						
Year Built/Year Supstr	1975/1975					Lot No.	4						
Bridge or Town Name	WABAMUN					Inspector Name	Wade Nanninga						
Located Over	16:12 R1 35.370;16:12 L1 35.388					Inspector Class	BR CLS A						
Located On	25138:02 C1 0.259					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	09-Aug-2012						
Legal Land Location	NW SEC 12 TWP 53 RGE 4 W5M					Data Entry By	Lisa Fairhurst						
Longitude, Latitude	-114:27:55, 53:34:11					Data Entry Date	24-Aug-2012						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux						
Contract Main. Area	CMA11					Review Date	21-Aug-2012						
Clear Roadway/Skew	10.4 / 10 deg. (RHF)					Dept. Reviewer Name	Brent Herrick						
AADT/Year	300 / 2012 (E)					Dept. Review Date	30-Aug-2012						
Road Classification	RLU-208-100					Follow-Up By							
Detour Length (km)	6												
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62			---> On Critical Spans ---->Critical Member
Design Loading:	HS25					---> Primary Span							
Posting Information													
Required Vert. Clearance Posting (m)		UNDER: 16 L1 5.3m, 16 R1 5.3m											
Posted Vertical Clearance (Y/N)		Yes											
Posted:	Lane	EB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	
Remarks		High load warning system West of bridge for EB traffic.											
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		Information.											
Utilities (Located at)													
Utility Attachments													
Telephone	Fibre optic marker north. Telus SW & NW.					Gas	60m east.						
Power	Transmission line 60m south.					Municipal							
Others						Problem (Y/N)	No						
Remarks		Conduit attached to East curb exterior, full length.											
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				6	6	Typical grade separation. Crest curve. Limited sight distance to South							
Vertical Alignment				6	6								
Roadway Width (m)		8.000				Not thrie beam type.							
Approach Bump				7	7								
Guardrail (Y/N)		Yes											
Guardrail				7	7								
Length (m)		53.000											
Current Standard (Y/N)		No											
Termination Type		Turned Down											
Drainage				7	7	New concrete drain troughs in 2007.							
Approach Road General Rating				6	6								

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)							
Special Features							
Special Feature		5		5		Protector west side, EBL.	
(SType : HIGH LD BUMPER)							
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		7		7		New ACP/waterproofing 2007. Shear key repaired 2007. 3 wide cracks near pier	
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) : 90;50)							
Lateral Connection Problem (Y/N)		No					
Deck Top		N		N			
Deck Rideability		8		8			
Deck Joints		7		5		New joints 2007. Edges of paving lips are chipped @ abutments.	
Temperature (deg. C)		26					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
Gap Size (mm)		Gap Location					
65		North abutment					
60		South abutment					
65		Pier					
Deck Drainage		4		4		Drains paved over. Deck drains @ abutment splash onto concrete slope protection thereby eroding concrete, worst @ SW, typical.	
Drains Clogged (Y/N)		Yes					
Curbs/Median		7		6		Curbs patched 2007.	
(Curb Type : Standard)							
Scaling (Percent Area)		5					
Bridge Rail		7		7		Corrosion of some base plates & grout pad. 5% post A/B with insufficient thread on nuts.	
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts		4		4			
(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		High load damage repaired all girders EBL. Typical chamfer cracking. Medium diagonal crack in chamfer zone extending into U/S at some girders. Narrow longitudinal crack @ bottom of leg ext from bearing. Paint peeling on exterior of girders.	
Cracking (Y/N)		Yes					
Spalling (Percent Area)		0					
(Number Of Girders : 14)							

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Narrow vertical cracks on most abutment diaphragms.
Bearings		6	6	New abutment bearings 2007. Most bearing pads bulging. Fixed at pier. Difficult to view pier bearings due to height.
Temperature (deg. C)	26			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL; REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Spot rust staining near some weep tubes, old stains.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		5	5	Spot corrosion @ wingwall.
Abutment Stability		8	8	
Scour/Erosion		X	4	Headslope protection @ SW spalling.
Piers/Bents				
(Type : PIER-COLUMN)				Spot corrosion @ SW face. Concrete columns above grd.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 3)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	4	Spot corrosion @ SW face.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	Median only.
Type	Guardrail			
Slope Protection		4	4	Toe of South slope protection buckling about 100mm. Panels on North abutment have settled. SW spalling.
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		4	4	

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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	57.2/57.2	Est. Repl. Yr	2033	Maint. Req'd. (Y/N)	No
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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	09-May-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							