

Bridge Inspection									
Bridge File Number	00786 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1980/1980				Lot No.	2			
Bridge or Town Name	DEVON				Inspector Name	Wade Nanninga			
Located Over	WHITEMUD CREEK, 6.95, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	19:10 C1 7.534				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Jan-2013			
Legal Land Location	SE SEC 29 TWP 50 RGE 25 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:37:12, 53:20:17				Data Entry Date	05-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	17-Jan-2013			
Clear Roadway/Skew	12.2 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	10,930 / 2011 (A)				Dept. Review Date	14-Feb-2013			
Road Classification	RAU-211.8-110				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:	MS230						----> 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									
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments	POWER UTILITIES-POWER LINE								
Telephone	North r/w.				Gas				
Power	2 lines North r/w & North curb.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Church access NW and SW.				
Vertical Alignment			9	9					
Roadway Width (m)	11.200								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Insufficient posts. Replace guardrail section 4 @ SW. Section 3 NE slight bend.				
Guardrail			N	4					
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			N	N	Void under approach slab 0.6 x 0.6 x 0.1 at NE corner.-07-May-2009				
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FM, 1 Spans, Lengths(m): 34, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	20	0	0	0		
Now	20.0	0.0	0.0	0.0		
Wearing Surface			7	4	Unravelling @ West abut.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	No					
Deck Top			N	N		
Deck Rideability			8	7		
Deck Joints			4	4	ACP over 75% of joints. West joint leaking water onto abut seat.	
Temperature (deg. C)		-15				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type : BUFFER ANGLES)						
Gap Size (mm)		Gap Location				
30		West - expansion				
15		East - fixed				
Deck Drainage			5	5	No drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	N	Deteriorated concrete on face of South curb. Water stops exposed on top of South curb.-07-May-2009	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			7	7		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		N	7			
(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						
Now						
Girders			4	4	Diagonal crack in wide web section extending into narrow web. West end, North curb, both ends East curb. Medium cracking curb units near & into end blocks. Cracking along bottom of legs near ends, medium. G3 West end medium long typical 'FC' crack 2.5m long.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 8)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 1 Spans, Lengths(m): 34, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	Cracked diaphragms on South curb girder.
Bearings		3	3	1 pad, girder 7 west abutment pushed off pad 50 mm - photo. 6/16 pads on West abutment extended past end of masonry plate. No anchor bolts on either abutment.
Temperature (deg. C)	-15			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		N	N	Exposed rebar at SW.-07-May-2009
Piles		N	N	Not visible due to headslope & concrete abutment.
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		4	4	Gully in West headslope. 0.2x0.2x5m
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		4	7	Bank sluffing U/S & D/S.
HWM (m below Top of Curb)				HWM not visible. Old piles in streambed South of bridge.
Drift (Y/N)	Yes			
Slope Protection		4	4	Gully on West headslope.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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	2013	Flood joints and repair W abut leakage.					
RESET/ PAINT BEARINGS	2013	Reset pads @ West abutment.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair guardrail. Section 4 @ SW & section 3 @ NE.					
OTHER ACTION	2013	Upgrade guardrail to standard.					
OTHER ACTION	2013	Patch pothole @ West abut.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)		55.6/55.6	Sufficiency Rating (Last/Now) (%)	51.5/51.5	Est. Repl. Yr	2042	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Monitor girder cracking, diaphragm cracks, erosion on West headslope and void under approach slabs.		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	10-Oct-2014		Previous Inspection Date	26-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							