

Bridge Inspection										
Bridge File Number	73694 N-1 Bridge					Form Type	SG			
Year Built/Year Supstr	1986/1986					Lot No.	2			
Bridge or Town Name	DEVON					Inspector Name	Kris Bosters			
Located Over	LOCAL ROAD;NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST					Inspector Class	BR CLS A			
Located On	60:02 R1 12.397					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	17-Dec-2012			
Legal Land Location	SW SEC 3 TWP 51 RGE 26 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:45:03, 53:22:12					Data Entry Date	07-Jan-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11					Review Date	19-Dec-2012			
Clear Roadway/Skew	10.5 /					Dept. Reviewer Name	Paul Catt			
AADT/Year	13,720 / 2011 (A)					Dept. Review Date	18-Jan-2013			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
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 Vert. Clearance Posting (m)	UNDER: LOCAL ROAD 5.5m									
Posted Vertical Clearance (Y/N)	No									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks										
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)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks										
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	Slippery When Wet. North Sask River.									

Utilities (Located at)									
Utility Attachments	OTHER UTILITIES-Bell West Alberta Supernet April 2005								
Telephone	North.				Gas	West of bridge 50mm.			
Power					Municipal				
Others	Conduit on girders North & South. Supernet @ SE & NE.				Problem (Y/N)	No			
Remarks	Lights not installed.								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	Curves both sides.					
Vertical Alignment		6	6						
Roadway Width (m)		12.600		Wide cracks in ACP at approaches.. Ravelling at joints.-photos					
Approach Bump		6	4						
Guardrail (Y/N)		Yes		Collision damage to first panel @ SW - flattened but still functional. Connection bolt missing at SE & SW.-photo					
Guardrail		N	4						
Length (m)		38.000		3 rails & 5 posts damaged on SE.-photo 1 rail & 3 posts damaged on NW.					
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage		N	5						

Approach Road					
			Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>			6	6	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : <b>WG, 4 Spans, Lengths(m): 70-90-90-70, A-Ident Number: A1024-01</b> )					
Special Features					
Special Feature				X	
(Type : )					
Special Feature				X	
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow along curbs
<b>Last</b>	10	0	0	0	
<b>Now</b>	10.0				
Wearing Surface			6	6	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>90</b> )					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Both joints rattle under heavy traffic. Broken fingers @ S. joint. (photo)  estimated due to limited access/traffic.
Temperature (deg. C)		-10			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
140		West - Exp.			
100		East			
Deck Drainage			7	4	Plumbing is leaking at SW abut. causing deterioration of abutment seat.-photo
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	Narrow vertical cracks & wide horizontal cracks @ 800 on outside of curbs. Snow covered
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Insufficient threads on 3% of posts.-24-Jun-2009 A few edges of grout pads broken off.-24-Jun-2009 Snow covered
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			N	N	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			N	N	Sink holes (300x500wide) @ N end. (photo)-24-Jun-2009 Snow covered.
Girder/Beam					
Cover Plate			X	X	Viewed from banks.
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 4 Spans, Lengths(m): 70-90-90-70, A-Ident Number: A1024-01</b> )				
Diaphragms/Cross Frame		7	7	
Paint Condition		7	7	Weathering steel.
(Colour Description : )				Outside edges of girders at abutments have scaling rust.-photos
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		7	7	Viewed from banks with binoculars.
Temperature (deg. C)	-10			Centre pier fixed. Narrow cracking in grout pads N. abut.
(Expansion Type : <b>ROCKER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	Light scaling at SW in splash zone & where plumbing is leaking.
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	Light scaling at SW.
Wingwalls		6	6	Map cracking with rust stains- all 4 walls.
Piles		N	N	
Paint/Coating		6	6	Flaking in splash zone.
Abutment Stability		7	7	
Scour/Erosion		4	5	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Narrow map cracking along each pier.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	5	
(Type : <b>NONE; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		5	5	
Type	Guardrail			
Slope Protection		N	5	
(Type : <b>NONE; RIP RAP</b> )				
Bank Stability		7	7	
Drainage		N	5	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace missing BR to GR bolts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013						
RESET/ PAINT BEARINGS	2013	Replace missing BR to GR bolts.					
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair sinkhole in sidewalk approach W. end, if not done.					
OTHER ACTION	2013	Repair leaking joint plumbing.					
OTHER ACTION	2013	Patch ACP at approaches, seal cracks.					
OTHER ACTION	2013	Replace broken approach rail posts & rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.3/59.4</b>	Est. Repl. Yr	2052	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	17-Sep-2014		Previous Inspection Date	26-Jan-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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