

Bridge Inspection										
Bridge File Number	78277 -1 Bridge					Form Type	SS			
Year Built/Year Supstr	1972/1972					Lot No.	8			
Bridge or Town Name	NORDEGG					Inspector Name	Paul Carrier			
Located Over	NORTH SASKATCHEWAN RIVER, 6, WATERCRS-ST					Inspector Class	BR CLS A			
Located On	TRAIL-PED, ON 50000 FB					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	20-Mar-2012			
Legal Land Location	SE SEC 31 TWP 35 RGE 17 W5M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-116:24:41, 52:02:46					Data Entry Date	11-May-2012			
Road Authority	CLEARWATER COUNTY					Reviewer Name	Jason Saly			
Contract Main. Area	UNDEFINED CMA					Review Date	26-Apr-2012			
Clear Roadway/Skew	0.9 /					Dept. Reviewer Name	Andrew Smikles			
AADT/Year						Dept. Review Date	15-May-2012			
Road Classification						Follow-Up By				
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train					
Design Loading:						----> On Critical Spans ---->Critical Member				
					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)												
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not Required											
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	Not Required											
Hazard Marker At Bridge (Y/N)	No											
Remarks	Not required.											
Other Sign Types	Pedestrian Crossing Only; No Horses Allowed on bridge (posted at A1 only, not required at A2) - photo.											

Utilities (Located at)										
Utility Attachments										
Telephone						Gas				
Power						Municipal				
Others						Problem (Y/N)	Yes			
Remarks	Ped counters at E abut. E counter cable cut off.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Pedestrian path 90 deg to bridge.				
Vertical Alignment			5	5					
Roadway Width (m)		1.800			Roadway is only a path; most defined with boardwalk to E of bridge (photo).				
Approach Bump			5	5					
Guardrail (Y/N)		No			None required; TT approach ramps at both ends.				
Guardrail			X	X	Require 4 - 50mm x 150mm x 1.5m boards at A1; also 2 - 50mm x 150mm x 2.5m joists for both sides.				
Length (m)									
Current Standard (Y/N)									
Termination Type									
Drainage			5	5	Much gravel/sand in area allows rainfall to seep into ground.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SSS, 2 Spans, Lengths(m): 74.4-37.2, A-Ident Number: A0806-01)					
Special Features					
Special Feature			6	Anchor Blocks. 3-HP 300 x 280 W x 18 web, dbl 200 x 55 channel & 40 dia galv tierod (and poss conc block below grade). W anchor block top visible, E anchor buried.	
(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			X	X	
(Material Type :)					
(Thickness(mm) :)					
Deck Top			7	7	Steel grating galv 25x50x20 deep.
Deck Rideability			7	7	
Deck Joints			X	X	
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Deck Drainage			8	8	No drains as all goes through deck grating.
Drains Clogged (Y/N)					
Curbs/Median			X	X	
(Curb Type : Standard)					
Scaling (Percent Area)					
Bridge Rail			8	8	Chainlink fence, 80mm dip @ midspan due to vert connect cables.
(Type : GALVANIZED STEEL LATTICE)					
Bridge Rail Posts		7	7	End post painted, rust start on E lattice.	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type : GALVANIZED)					
Sidewalk			X	X	
Top Chord			8	8	10mm dia (7 wire) galv. wire rope (cables); 1 broken cable at 10th support point from E abut (photo 9). Few ungalv cable clamps @ btm floor beam 40x75 galv angle. Z shape 50 x 50.
Diagonals			X	X	
Verticals			7	3	
Connections			7	7	
Floor Beams			8	8	
Bottom Chord			8	8	
Stringers			X	X	
Girders			X	X	
Diaphragms/Cross Frame			7	7	Painted horiz angles overhead.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : SSS, 2 Spans, Lengths(m): 74.4-37.2, A-Ident Number: A0806-01)				
Paint Condition		6	6	Primer only tieback anchor block, scaling. Fed 595B Std = CGSB #502-105.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Touchup Required (Y/N)	No			
Bearings		X	N	Unable to confirm bearing at A2 due to amt of dirt spilled onto bearing (photo). Bearing assembly directly to TT. Clean-out area to fully inspect.
Temperature (deg. C)				
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Really not deck underside, per se. All support system visible throughout.
Stains (Percent Area)	0			
(Snow Slots Filled :)				
Span Alignment Problems				
Vertical (Y/N)	Yes			S u/s end of pier cribbing is approx. 0.3m lower than N end; likely does not affect support cables.
Horizontal (Y/N)	No			
Superstructure General Rating		7	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps/Corbels		7	7	
(Type : TREATED TIMBER)				
(Depth(mm) : 150)				
(Width(mm) : 200)				
Backwalls/Breastwalls		X	X	
Wingwalls		X	X	
Piles		N	N	Buried
Paint/Coating		4	4	Mild corrosion
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-TRESTLE)				Pier-Towers. Steel caps welded to all bearing piles; single corbel under each tower (photo).
Bearing Seats/Caps/Corbels		7	7	
(Type : STEEL)				Unable to access all piles in P1 to count; all piles in P2 rated 8.
(Total Number of Bearing Piles : 12)				
Pier Shaft/Piles		8	8	
Greatest Height (m)	6.60			
Bracing/Struts/Sheathing		8	8	
Nose Plate		8	8	
Paint/Coating		4	4	Corrosion at waterline. Fed 595B Std = CGSB #502-105.
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		5	5	S u/s end is 0.3m lower than N.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Replace 4 - 2x6x5' approach ramp board, plus add 2 joists on sides 2x6x8'.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS	2012	Broken cable in E span needs 10mm wire rope x 2.795m inc. thimbles.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Clean-out dirt at A1,P1 & A2 to expose caps/piles to inspect.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/44.4	Sufficiency Rating (Last/Now) (%)	83.6/69.8	Est. Repl. Yr	2029	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	20-Dec-2016		Previous Inspection Date	06-Mar-2009			
Inspection Cycle (Default) (months)	57						
Comment							