

Bridge Inspection										
Bridge File Number	77797 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1967/1967				Lot No.	2				
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava				
Located Over	SOUTH CREEK, 6.170, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	734:18 C1 10.919				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	02-Dec-2010				
Legal Land Location	NE SEC 16 TWP 39 RGE 15 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-116:05:27, 52:21:44				Data Entry Date	03-Jan-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	17-Dec-2010				
Clear Roadway/Skew	6.4 / 0 deg.				Dept. Reviewer Name	Chris Black				
AADT/Year	90 / 2009 (A)				Dept. Review Date	05-Jan-2011				
Road Classification	RLU-208G-90				Follow-Up By					
Detour Length (km)	190									
Allowable Load (t):	Single	CS1 28 GIRDER		Semi	CS2 49 GIRDER		Train	CS3 65 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20								----> 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)	Yes								
Remarks	Offline & too high.								
Other Sign Types	South Creek sign NW & SE.								

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	4	Curves North & South. Bridge at bottom of sag curve, limited sight distance.				
Vertical Alignment			4	4					
Roadway Width (m)	7.000								
Approach Bump			6	6					
Guardrail (Y/N)			No						
Guardrail			X	X					
Length (m)									
Current Standard (Y/N)			No						
Termination Type			NONE						
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>4</b>	<b>4</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 1 Spans, Lengths(m): 6.1, A-Ident Number: </b> )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.	
<b>Last</b>						
<b>Now</b>	100.0	0.0	0.0	0.0		
Wearing Surface				X	X	
(Material Type : )						
(Thickness(mm) : )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N	(Covered with 25 mm of gravel. 02/10/08). Snow covered.	
Deck Rideability			6	6		
Deck Joints			X	X	Buffer angles covered by snow.	
Bump (Y/N)		No				
Deck Drainage			5	5	(Slightly hampered by excess gravel on deck. 22Nov2005).	
Drains Clogged (Y/N)		No				
Curbs/Median			5	N	Snow covered.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		10				
Bridge Rail			4	4	Single layer. Minor damage at NW corner. Rail to post bolt pulled through rail, not connected. West rail splice improper lap. (Every post only has 2 nuts on diagonal at anchor to curb - photo. 22Nov2005). Rusting.	
(Type : <b>FLEX BEAM</b> )						
Bridge Rail Posts			3	N		
(Type : <b>POST STEEL;POST STEEL</b> )						
Bridge Rail/Posts Coating			4	4		
(Type : <b>PAINT</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Girders				5	6	
Last Complete Inspection Date		02-Dec-2010				
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : <b>8</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No		(Curb does not line up with road shoulder - photo. 22Nov2005).		
Horizontal (Y/N)		Yes				
<b>Superstructure General Rating</b>			<b>5</b>	<b>6</b>		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)				Tie-back anchored.		
(Extended Backwall Piles Spacing(mm) : 800)						
(Total Number of Caps/Corbels : 1:1)				South abutment cap slightly rotated due to backwall pressure / high backwall.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
Backwalls/Breastwalls			4	4		
Greatest Height (m)		4.00				
Wingwalls			6	6		
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Piles				5	5	
Paint/Coating				5	X	
Abutment Stability			5	5		
Scour/Erosion			6	6		
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				X	X	
(Type : )						
(Depth(mm) : )						
(Width(mm) : )						
(Total Number of Bearing Piles : )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						
Pier Stability			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				(0.9m below bottom of girder legs. 22Nov2005).
Drift (Y/N)	No			
Slope Protection		6	6	Natural shale.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		4	4	Stream enters bridge on skew & impacts NW wing.
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Install post A/B nuts where missing (16) - if not done, upgrade to double layer to meet standard & connect rail to post @ NW post.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011	Remove gravel, if not done.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP	2011	Armour front of NW wingwall to deflect flow.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Install approach rail.					
OTHER ACTION	2011	Reset girders to align with road shoulder @ major rehab.					
OTHER ACTION	2011	Patch backwall sheathing - fill gap.					
OTHER ACTION	2011	Reinstall hazard markers to meet standard.					
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>47.5/50.0</b>	Est. Repl. Yr	2020	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2004.05.30 Bridge should be ok until 2017.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	02-Mar-2014		Previous Inspection Date	22-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							