

Bridge Inspection									
Bridge File Number	77589 -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	OTTER CREEK, 6.161.2.3.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	734:16 C1 47.619				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	02-Dec-2010			
Legal Land Location	SW SEC 17 TWP 37 RGE 14 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-115:58:17, 52:10:39				Data Entry Date	03-Jan-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	16-Dec-2010			
Clear Roadway/Skew	6.4 / 0 deg.				Dept. Reviewer Name	Chris Black			
AADT/Year	60 / 2009 (A)				Dept. Review Date	05-Jan-2011			
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	150								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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. Posted 40t / 54t sign @ North jct (SB) not for this bridge.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Offline, not to standard.								
Other Sign Types	Otter Creek sign, missing @ 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	7.8km North of BF 77588.				
Vertical Alignment			4	4	Curves & hills in both directions, limited sight distance.				
Roadway Width (m)	7.000								
Approach Bump			7	7					
Guardrail (Y/N)	No				(Required due to 1:1 sideslopes all corners. 22Nov2005).				
Guardrail			X	X					
Length (m)									
Current Standard (Y/N)	No								
Termination Type	NONE								
Drainage			7	7	(Large volume of gravel bladed onto South end of bridge - photo. 22Nov2005).				
<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): 8.5, 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 (%)	
<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)					
Deck Top			N	N	Covered with snow.
Deck Rideability			6	6	
Deck Joints			X	X	Buffer angles.
Bump (Y/N)		No			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	(Minor grader damage. 22Nov2005). Snow covered.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Single layer. Improper lap, short splice.
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts			6	6	Round.
(Type : <b>POST STEEL;POST STEEL</b> )					Rusting. Blue paint.
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	5	Typical flexural cracking & vertical cracking at end diaphragms (drift pin).  Unknown.
Last Complete Inspection Date		02-Dec-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>8</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>5</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : <b>Y</b> )					
(Extended Backwall Piles Spacing(mm) : <b>900</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
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 : <b>TREATED TIMBER</b> )					
(Depth(mm) : <b>305</b> )					
(Width(mm) : <b>305</b> )					
Backwalls/Breastwalls			5	5	Slightly bowed North abutment.
Greatest Height (m)		2.50			
Wingwalls			6	6	
(Total Number of Bearing Piles : <b>5:5</b> )					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>				2	
<b>Now</b>	0	0	0	2	
Piles				3	3
Paint/Coating				X	X
Abutment Stability			6	5	Backwall & piles bowed at A1.
Scour/Erosion			5	5	
<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>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				(Sharp bend U/S direct flow into NW wingwall (photo) armoured, then deflects flow into South abutment. 22Nov2005).
(D/S Direction : <b>N</b> )				
Alignment		4	4	
Bank Stability		5	5	
HWM (m below Top of Curb)	2.3			1.5m below girder legs.
Drift (Y/N)	No			
Slope Protection		4	4	
(Type : <b>NONE; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	6	
(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	Replace & upgrade to double layer to meet standard, galv posts.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011	Remove gravel on deck. Trim / blend approaches to suit, if not done.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Install approach rail.					
OTHER ACTION	2011	Install steel jacket pile rebar A1 P3,4.					
OTHER ACTION	2011	Install missing river ID signs.					
OTHER ACTION	2011	Reinstall all hazard markers to meet standard.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>49.9/49.9</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	2008.11.10 Cored, replace east abutment cap. 1 pile splice repair. Bridge should be ok until 2017. RS						
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	
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