

Bridge Inspection											
Bridge File Number	77583 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1966/1966				Lot No.	1					
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava					
Located Over	ELK CREEK, 6.159.23, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	734:16 C1 17.163				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	01-Dec-2010					
Legal Land Location	NW SEC 8 TWP 36 RGE 12 W5M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-115:41:08, 52:04:55				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	12-Jan-2011					
Road Classification	RCU-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.									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks	Offline. NW marker leaning.									
Other Sign Types	No creek ID signs.									

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

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	5	60 degree corner 150m N.					
Vertical Alignment			6	6						
Roadway Width (m)	7.000									
Approach Bump			5	5						
Guardrail (Y/N)			Yes							
Guardrail			7	7	Insufficient post / spacing & length.					
Length (m)			12.000							
Current Standard (Y/N)			No							
Termination Type			TURNDOWN							
Drainage			4	4	SW ditch erosion, partially armoured - photo.					
<b>Approach Road General Rating</b>			<b>6</b>	<b>5</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			7	7	
Deck Joints			N	N	Buffer angles covered by snow.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			5	N	(Spall at NW corner - minor. 23Nov2005).
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Single layer, not lapped properly.
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts			7	7	Paint 20% peeling / faded.
(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	1	
Girders			N	3	G2 wide long. cracks in AZ (photo). Drift spalls.  Unknown.
Last Complete Inspection Date		01-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>3</b>	<b>3</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				6	6	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>305</b> )						
(Width(mm) : <b>305</b> )						
Backwalls/Breastwalls				6	6	Wingwall is extension of backwall. All piles anchored.
Greatest Height (m)		2.80				
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>						
<b>Now</b>	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				7	7	
<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>6</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				90 degree turn 20m D/S. 30m U/S.
(D/S Direction : <b>E</b> )				
Alignment		5	5	
Bank Stability		5	5	Slight bank erosion - no problem.
HWM (m below Top of Curb)				(0.6m below girder legs. 23Nov2005).
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Replace with double layer & proper splice / lap.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011	Remove gravel from deck, 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	Upgrade approach rail to meet standard.					
OTHER ACTION	2011	Reinstall hazard markers to meet standard.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.3/56.4</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for girders at this time.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	01-Mar-2014		Previous Inspection Date	23-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							