

Bridge Inspection										
Bridge File Number	77599 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	2				
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 24.093				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	01-Dec-2010				
Legal Land Location	SE SEC 3 TWP 36 RGE 13 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-115:46:01, 52:03:46				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	60 / 2009 (A)				Dept. Review Date	05-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	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)	Yes									
Remarks	At varying heights & offline; SE leaning.									
Other Sign Types										

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

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Hills both directions, limited sight distance.					
Vertical Alignment		5	5						
Roadway Width (m)	7.000		Approaches slightly lower than bridge with relatively smooth transition.						
Approach Bump	6	6							
Guardrail (Y/N)	No								
Guardrail	X	X							
Length (m)									
Current Standard (Y/N)	No								
Termination Type	None								
Drainage	7	7							
Approach Road General Rating	5	5							

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last					
Now	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			N	N	Buffer angles covered by snow.
Bump (Y/N)		No			
Deck Drainage			4	N	(Slightly hampered by gravel along curb & on deck. 23Nov2005). Snow covered.
Drains Clogged (Y/N)		Yes			
Curbs/Median			5	N	(Minor plow damage. 23Nov2005). Snow covered.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Single layer with short splice & improper lap -photo. Round. 40% peeling & showing primer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			3	3	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	5	Spalling @ pin locations. Not visible.
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 : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 800)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					
Backwalls/Breastwalls			6	6	
Greatest Height (m)		2.50			
Wingwalls			4	4	Wings are extension of backwall. NE wing pile appears broken but supported by partial timber sleeve - photo.
(Total Number of Bearing Piles : 5:5)				A1 P1 has wide crack.	
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Piles			N	5	
Paint/Coating			X	X	
Abutment Stability			6	6	
Scour/Erosion			N	N	(Erosion behind NW wing, armoured with rocks - photo. 23Nov2005). Under ice.
Piers/Bents					
(Type :)					
(Total Number of Caps/Corbels :)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
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)	
Last					
Now					
Pier Shaft/Piles			X	X	
Greatest Height (m)		3.70			
Bracing/Struts/Sheathing			X	X	
Nose Plate			X	X	
Paint/Coating			X	X	
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Runs parallel beside road at SW for 40m, steep embankment sideslope.
(D/S Direction : E)				
Alignment		4	4	
Bank Stability		5	5	
HWM (m below Top of Curb)				(HWM 2.5m. 05/07/05).
Drift (Y/N)	No			
Slope Protection		5	5	Some rocks.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to double layer & proper lap.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2011	Remove gravel from deck, unclog deck drains, 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							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	61.2/61.2	Est. Repl. Yr	2020	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	01-Mar-2014		Previous Inspection Date	23-Nov-2005			
Inspection Cycle (Default) (months)	39						
Comment							