

Bridge Inspection										
Bridge File Number	73485 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1972/1999				Lot No.	4				
Bridge or Town Name	NORDEGG				Inspector Name	Owen Salava				
Located Over	SHUNDA CREEK, 6.166, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	11:06 C1 10.171				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	06-Feb-2012				
Legal Land Location	SW SEC 2 TWP 41 RGE 14 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-115:54:56, 52:30:03				Data Entry Date	06-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA18				Review Date	22-Feb-2012				
Clear Roadway/Skew	13.7 / 15 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	970 / 2010 (A)				Dept. Review Date	09-Mar-2012				
Road Classification	RAU-213.4-120				Follow-Up By					
Detour Length (km)	80									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	CS750									----> 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)	No								
Remarks	Not required.								
Other Sign Types	Shunda Creek, "Bump" sign installed @ NE & SW corners. Curve signs 60m East & West.								

Utilities (Located at)										
Utility Attachments										
Telephone	South r/w.				Gas					
Power	3 line North r/w.				Municipal					
Others					Problem (Y/N)		No			
Remarks										

Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			7	7	Long gradual curve in both directions. Crest curve to W with adequate sight distance.					
Vertical Alignment			7	7						
Roadway Width (m)	13.500					WBL W approach ACP slightly higher than approach slab. Bump at end of approach slabs.				
Approach Bump			6	5						
Guardrail (Y/N)			Yes							
Guardrail			7	7						
Length (m)			51.700		NW, SE & NE - 59.3m, SW - 51.7m.					
Current Standard (Y/N)			Yes							
Termination Type			Turn Down							
Drainage			7	7						
Approach Road General Rating			7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 5 Spans, Lengths(m): 10.1-10-10-10-10.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	10.0	0.0	0.0	0.0	
Wearing Surface			5	5	Random hairline cracks. 18m of narrow cracking, random. Minor scaling @ NW approach slab.
(Material Type : CONCRETE)					
(Thickness(mm) : 125)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	Protection angles.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Vertical cracks with leaching @ 0.6m spacing - sealed.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	5	Typical 100mm long diagonal cracks G2,3 @ P4, S4. No pockets.
Last Complete Inspection Date		06-Feb-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 60)					
Span Alignment Problems					
Vertical (Y/N)		No			Bridge built with vertical curve.
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(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	Minor narrow vertical cracks @ AZ.	
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		1.20				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100					
Now	100	0	0	0	Buried.	
Piles				N	N	
Paint/Coating				7	7	
Abutment Stability				7	7	
Scour/Erosion				7	7	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1:1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 610)						
(Width(mm) : 500)						
(Total Number of Bearing Piles : 8:6:6:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0	8 - 310mm dia pipe piles at P1 & P4 each. 6 - 500mm dia pipe piles at P2 & P3 each.	
Pier Shaft/Piles				7	7	
Greatest Height (m)						
Bracing/Struts/Sheathing				6	6	Bracing P2,3 only.
Nose Plate				X	X	
Paint/Coating				6	6	P4 blue top coat 50% gone but primer coat still good - photo. Top coat peeling 10-15% primer ok. P2, P3 ice wear bottom 1.0m. Blue.
(Colour Description :)						
(Colour Code :)						
Pier Stability				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	Minor sloughing U/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	West headslope natural, East class I riprap.
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	64.8/64.9	Est. Repl. Yr	2048	Maint. Req. (Y/N)	No
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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	06-Nov-2013		Previous Inspection Date	04-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							