

Bridge Inspection									
Bridge File Number	74031 S-2 Bridge				Form Type	SG			
Year Built/Year Supstr	1987/1987				Lot No.	2			
Bridge or Town Name	ALDERSYDE				Inspector Name	Garry Roberts			
Located Over	SHEEP RIVER, 2.13.27.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:12 L1 17.106				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Nov-2011			
Legal Land Location	NW SEC 19 TWP 20 RGE 28 W4M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-113:52:57, 50:42:45				Data Entry Date	16-Dec-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA27				Review Date	07-Dec-2011			
Clear Roadway/Skew	16.5 / 25 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	21,790 / 2010 (A)				Dept. Review Date	10-Jan-2012			
Road Classification	RFD-412.4-130				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS300						----> 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)		In Advance (Y/N)		At Bridge (Y/N)			
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										
Other Sign Types	Sheep river									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	WEST DITCH				Gas				
Power	FIBRE OPTICS @ WEST R/W				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Limited sight distance to north. On grade to South.					
Vertical Alignment		6	7						
Roadway Width (m)	17.700								
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Missing 1 transition bolt at SW, wrong lap at SE					
Guardrail		4	4	Not thriebeam					
Length (m)	50.000								
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN ENDS							
Drainage		3	3	1m x 10m ditch erosion at SW					
Approach Road General Rating		6	6						

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : WG, 4 Spans, Lengths(m): 27.4-36.6-36.6-27.4, A-Ident Number: A1042-01)								
Special Features								
Special Feature			7	Binwall abutment protection at North abutment.				
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)				
Last	0	0	0	0				
Now	0.0	0.0	0.0	0.0				
Wearing Surface			5	5	Chip coat on ACP-50mm total thickness. Some 20mm rutting.			
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)								
(Thickness(mm) : 90)			NUMEROUS TRANSVERSE CRACKS, most sealed					
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			4	4	Missing 1 plow guard left lane of North abut. and middle lane of South abutment.			
Temperature (deg. C)		-7						
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))								
(Fixed Type :)								
Gap Size (mm)		Gap Location						
95		N. abut						
90		S. abut						
Deck Drainage			7	7	No deck drains. Drain to S. end on 3% grade.			
Drains Clogged (Y/N)		No						
Curbs/Median			7	7	Cracks 0.3mm in face & cracks and on curb exterior.			
(Curb Type : Standard)								
Scaling (Percent Area)		0						
Bridge Rail			7	7	Cap missing & minor post damage @ NW Several post A/B nuts just flush 5% have deteriorated grout.			
(Type : GALVANIZED STEEL BRIDGE TUBE)								
Bridge Rail Posts			4	4	Galv.			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			7	6				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			X	X	8 MISDRILLED HOLES @ WEST FASCIA GIRDER DIAPHRAGM CLIP @ NORTH SPAN.			
Flange			8	7				
Web			7	7				
Stiffeners			8	7				
Splice			8	7				
Weld			8	7				
Diaphragms/Cross Frame			8	7				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 4 Spans, Lengths(m): 27.4-36.6-36.6-27.4, A-Ident Number: A1042-01)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	-7			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : ROCKER BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescence at cracks at exterior of deck and span #2 at midspan.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				Massive piers
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	Minor peeling at pier shafts
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	5	Erosion @ SE Bank lined with rip rap
HWM (m below Top of Curb)	5.0			No visible HWM Minor drift at P1.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair/ replace post- install post cap					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace 2 plow guard abut 1. left lane abut 2 middle lane.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair SW ditch erosion 10m3 pitrun					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	69.1/69.0	Est. Repl. Yr	2048	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	27-Aug-2013		Previous Inspection Date	10-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							