

Bridge Inspection									
Bridge File Number	74458 S-1 Bridge				Form Type	CON			
Year Built/Year Supstr	1957/1957				Lot No.	3			
Bridge or Town Name	ALDERSYDE				Inspector Name	Garry Roberts			
Located Over	HIGHWOOD RIVER, 2.13.27, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	2:12 L1 11.749				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	03-Oct-2011			
Legal Land Location	NE SEC 6 TWP 20 RGE 28 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-113:51:43, 50:40:06				Data Entry Date	16-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA27				Review Date	07-Oct-2011			
Clear Roadway/Skew	15.2 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	15,040 / 2010 (A)				Dept. Review Date	17-Nov-2011			
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:	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)		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)	No								
Remarks									
Other Sign Types	HIGHWOOD RIVER RIGHT LANE ENDS.								
Utilities (Located at)									
Utility Attachments									
Telephone	At South side overhead and South row				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	5	Curve West				
Vertical Alignment			8	8					
Roadway Width (m)	17.000				Road is higher than approach slab				
Approach Bump			5	4					
Guardrail (Y/N)	Yes				Wrong lap at East end both sides				
Guardrail			4	4	Not thriebeam				
Length (m)	76.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN END								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 4 Spans, Lengths(m): 17.7-25-25-17.7, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7	EXTERNAL STRENGTHENING RODS.	
(SType : <b>EXT SHEAR STIRRUP</b> )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface		6	5	Deck has holes drilled through for strengthening. Chip seal 80% worn- Rating concrete deck Minor spalls at core holes Numerous 0.5mm wide transverse cracks	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top		6	5		
Deck Rideability		7	7		
Deck Joints		8	7		
Temperature (deg. C)		18			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
75	W ABUT				
75	E ABUT				
Deck Drainage		7	7		
Drains Clogged (Y/N)		No			
Curbs/Median		6	6	TRANSVERSE NARROW CRACKS @ 1m SPACING	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		1			
Bridge Rail		7	7	21 A/B nuts not fully engaged	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	5		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girders		5	5	Shear cracks @ piers abutment @ girders 0.35mm. @ West span & 0.77mm @ East span @ South fascia girder strengthened Vertical cracks 1mm wide @ girder @ piers	
Diaphragms/Cross Frame		6	6	2 mm wide vertical cracks in several diaphragms.	
Bearings		7	7	Roller brgs @ abuts	
Temperature (deg. C)		18		Rockers on East & West pier. Pinned at center pier on a pedestal.	
(Expansion Type : <b>ROLLER BEARING;ROCKER BEARING</b> )					
(Fixed Type : <b>PINNED BEARING</b> )					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 4 Spans, Lengths(m): 17.7-25-25-17.7, A-Ident Number: )				
Deck Underside		5	5	Numerous patches and moderate cracks
Stains (Percent Area)	1			some efflorescence @ cracks
<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>				
Bearing Seats		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Pier Shaft/Piles		6	6	
Nose Plate		4	4	Loose @ center pier
Paint/Coating		4	4	Paint @ nose plates 90% Gone
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	6	
Debris (Y/N)	Yes			Old piles under span 3
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	
Bank Stability		5	5	steep cut @ West
HWM (m below Top of Curb)	5.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				

Structure Usage				
		Last	Now	Explanation of Condition
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK	2014	Chip coat deck for skid resistance					
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.9/58.9</b>	Est. Repl. Yr	2025	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	03-Jul-2013		Previous Inspection Date	10-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							