

Bridge Inspection											
Bridge File Number	13824 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1961/1961				Lot No.	2					
Bridge or Town Name	SLAVE LAKE				Inspector Name	Wade Nanninga					
Located Over	SAWRIDGE CREEK, 8.11.80.26, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	2:46 C1 59.159				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	27-Mar-2013					
Legal Land Location	NE SEC 25 TWP 72 RGE 6 W5M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-114:46:33, 55:16:15				Data Entry Date	16-Apr-2013					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux					
Contract Main. Area	CMA06				Review Date	11-Apr-2013					
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Brent Herrick					
AADT/Year	5,430 / 2012 (A)				Dept. Review Date	23-Apr-2013					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	3										
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	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	Information.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	North r/w. Temp cable on South rail.				Gas				
Power	6 wires North r/w.				Municipal				
Others	Water survey cable north curb. Water gauge @ NE. Alberta supernet fibre optics North r/w.				Problem (Y/N)	Yes			
Remarks	Temp cable on rail should be removed.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Intersections both ways.				
Vertical Alignment			8	8					
Roadway Width (m)	10.300				Bumps at both ends. Potholes @ W end.				
Approach Bump			5	4					
Guardrail (Y/N)	Yes				Insufficient posts next to bridge.				
Guardrail			3	6					
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			5	5					
Approach Road General Rating			7	7					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : RB, 3 Spans, Lengths(m): 14.6-18.3-14.6, A-Ident Number: A0298-01)							
Special Features							
Special Feature			X				
(Type :)							
Special Feature			X				
(Type :)							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
Last	0	0	0	0			
Now	10.0						
Wearing Surface			4	4	4 areas where chip seal delaminates from deck (photo). Total area approx 2m square.		
(Material Type : CONVENTIONAL CHIP SEAL COAT)							
(Thickness(mm) :)							
Deck Top			N	N			
Deck Rideability			5	5			
Deck Joints			4	3	East paving lip spalling (photo) W joint leaking onto abutment.		
Temperature (deg. C)		5					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
65		Wet abutment					
85		East abutment					
Deck Drainage			4	4	Dirt and gravel along curbs impede flow (photo). Deck drain @ NE corner causing erosion hole 0.8m deep (photo)-doesn't extend low enough.		
Drains Clogged (Y/N)		No					
Curbs/Median			4	4	Few spalled exterior edges below bridge rail posts both sides - photo. Curbs covered by mud and gravel (photo)		
(Curb Type : Standard)							
Scaling (Percent Area)		1					
Bridge Rail			7	7	Insufficient thread extending through nut, 50% of post anchors, 20% post grout pad spalled.		
(Type : GALVANIZED STEEL FLEX BEAM)							
Bridge Rail Posts			4	4			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating			7	7			
(Type : GALVANIZED)							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			7	7	Minor sag in some girders.		
Flange			6	6			
Web			7	7			
Stiffeners			X	X			
Splice			7	7			
Weld			7	7			
Diaphragms/Cross Frame			7	7			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 14.6-18.3-14.6, A-Ident Number: A0298-01)				
Paint Condition		4	4	Bottom flanges are 50% superficial rust. Webs and top flanges are 10% superficial rust. Green.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	2 Anchor bolts east pier missing 2nd bearing from North. Other bolts bent.
Temperature (deg. C)	5			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Narrow transverse cracks at 1.2 m spacing with leaching under curbs. 0.3m x 1.5m delam S1 in bay 3.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		4	4	Erosion hole at NE corner from drain trough.
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		5	5	Uneven lateral earth pressure on both piers.
Scour		6	N	
Debris (Y/N)	No			
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)		The creek crosses highway on a 30 degree skew and bridge is square. The SE bank is eroded near vertical with recent slides visible - photo. The entrance geometry should be improved.		
(D/S Direction : N)				
Alignment		4	4	
Bank Stability		4	4	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		6	6	
(Type : GABION; GABION)				
Guidebank/Spurs		6	6	
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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Do permanent patches on deck & approach ACP.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair paving lip					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2013	Wash curbs/shoulder					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fix erosion hole @ NE corner, place riprap or redirect drain onto gabions Partial depth repairs on outside face of curbs (approx 6 locations)					
OTHER ACTION	2013	Move cable off rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	53.6/52.5	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor deck delam.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	09-Jun-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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