

Bridge Inspection										
Bridge File Number	70513 -1 Bridge					Form Type	TH			
Year Built/Year Supstr	1906/1906					Lot No.	2			
Bridge or Town Name	ROSEDALE					Inspector Name	Jason Saly			
Located Over	ROSEBUD RIVER, 3.33, WATERCRS-ST					Inspector Class	BR CLS A			
Located On	10X:02 C1 1.667					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	06-Mar-2013			
Legal Land Location	NW SEC 18 TWP 28 RGE 19 W4M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:40:10, 51:23:53					Data Entry Date	27-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA21					Review Date	21-Mar-2013			
Clear Roadway/Skew	5.1 /					Dept. Reviewer Name	Chris Black			
AADT/Year	580 / 2011 (A)					Dept. Review Date	28-Mar-2013			
Road Classification	RLU-208-100					Follow-Up By				
Detour Length (km)	15									
Allowable Load (t):	Single	H 31 STRINGER			Semi	HS 53 U3L4		Train	CS3 69 U3L4	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	NB	On Bridge (m)	5.1	In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.1	In Advance (Y/N)	No
Remarks (Bridge #6) Measured 5.30 both portals.												
Required Load Posting (t)												
Posted Loading (t)												
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	Yes				
Posted:	Lane	SB	At Junction (Y/N)	Yes	In Advance (Y/N)	No	At Bridge (Y/N)	Yes				
Remarks Loading dictated by file 70514.												
Hazard Marker At Bridge (Y/N) Yes												
Remarks												
Other Sign Types Stop if oncoming traffic on bridge, 35 km/hr curve. Missing truss ID plaque.												

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	10m West r/w.				Gas	15.0m West.			
Power	3 wire 10.0m West.				Municipal				
Others					Problem (Y/N)	No			
Remarks Truss ID missing @ LOU1E.									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves 500m on both ends.
Vertical Alignment		7	7	
Roadway Width (m)		9.000		(Incorrect connection to bridgerail at NW & SE. 07Jun2011).
Approach Bump		6	6	
Guardrail (Y/N)		Yes		
Guardrail		4	5	Not thriebeam; insufficient posts.
Length (m)		11.600		
Current Standard (Y/N)		No		
Termination Type		Turn Down		
Drainage		6	6	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : TH, 1 Spans, Lengths(m): 41.1, A-Ident Number: A0092-05)					
Special Features					
Special Feature			X	Truss ID missing @ L0U1E.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Dirt/snow covered.
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface/Deck Top				7	7
(Material Type : EKKI WOOD)					
(Plank Thickness(mm) : 60)					
(Plank Width(mm) : 180)					
Deck Rideability				7	7
Deck Joints				X	X
Temperature (deg. C)		-12			
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards				7	7
(Curb Type : Standard)					
(Type : EKKI WOOD)					
(Thickness(mm) : 150)					
(Width(mm) : 245)					
Bridge Rail				7	7
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking				7	7
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating				7	6
(Type : GALVANIZED)					
Sidewalk				X	X

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : TH, 1 Spans, Lengths(m): 41.1, A-Ident Number: A0092-05)						
Wide Load Damage (Y/N)	Yes					Minor dents. Top bracing bowed. (Lower bracing perforated. 07Jun2011). (Due to post modifications to the truss some components are redundant. Old bracing has left verticals with stretched holes on webs. 07Jun2011). Corrosion buildup in plates. Pack rust between connections. Lower horizontal gussets are thin due to corrosion. (Top of SW BP has 4 tilted bolts. 07Jun2011). Flaking rust on S floor beam at bottom flanges.
High Load Damage (Y/N)	No					
Top Chord			7	7		
Batter Posts			7	7		
Sway Bracings			4	4		
Diagonals			5	5		
Verticals			6	6		
Portals			7	7		
Connections			4	4		
Floor Beams			5	5		
Bottom Chord			5	5		
(No. of Stringers : 120)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		Both exterior bay 8 twisted 70mm. New stringers measure 265mm x 145mm, all @ 360. Four different types of stringers, 2 @ 400 x 140. (For details see 2011 UT report. 07Jun2011). Corrosion along edges of lower flanges.
Last						
Now						
Stringers			4	4		
(Type : STEEL)						
(Width(mm) :)						
(Depth(mm) :)						
(Spacing(mm) : 749)						
Paint Condition			3	3		Paint coating is generally good but allows corrosion to continue at some connection and horizontal gussets. Brown. Edges of some stringers & floor beam flanges have flaking rust.
(Colour Description :)						
(Colour Code :)						
Touchup Required (Y/N)	Yes					
Bearings			4	4		Eccessively corroded. No skirts at rotten bearings. (LOE & LOW extended 14mm & 9mm beyond design. 07Jun2011). A1 A2
Temperature (deg. C)	-12					
(Expansion Type : ROLLER NEST BEARING)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	No					
Sub Deck/Deck Underside			6	6		5% of timber clips are loose.
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 305)						
Defects (Percent Area)	0					
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						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 9:9)				3 HP 310 corbel & 2 HP 310 caps, 16 total. 1 - 300 x 300 TT BW cap, 2 total.				
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Bearing Seats/Caps/Corbels			8				7	
(Type : STEEL)								
(Depth(mm) : 310)								
(Width(mm) : 305)								
Backwalls/Breastwalls			8				7	
Greatest Height (m)		1.80						
Wingwalls			6	6				
(Total Number of Bearing Piles : 12:12)				Painted yellow.				
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last	0	0	0				0	
Now	0	0	0				0	
Piles			8				7	
Paint/Coating			5				5	
Abutment Stability			6				6	
Scour/Erosion			6				6	
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 :)								
(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)								
Bracing/Struts/Sheathing			X	X				
Nose Plate			X	X				
Paint/Coating			X	X				
(Colour Description :)								
(Colour Code :)								
Pier Stability			X	X				
Scour			X	X				
Debris (Y/N)		No						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)		Channel is at 25 degree angle to bridge. Rail bridge 20m U/S. (Water to subdeck 5.6, S.B. to subdeck 6.3. 1996/08/14)		
(D/S Direction : W)				
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Only a little rock on North.
(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		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
RESET/ PAINT BEARINGS	2018	Replace roller nests with teflon/neoprene bearings.					
REPAINT SUPERSTRUCTURE	2018	Paint touchup as needed until bridge reaches upcoming service life 7 - 10 yrs. Add rust inhibitor at plates.					
STRAIGHTEN/REPLACE MEMBERS	2013	LOU1W - replace 4 bolts at U1W, if not yet done.					
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Attach ID plaques.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	51.1/49.2	Est. Repl. Yr	2030	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor corrosion at bottom chord & bottom chord gussets.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2006.12.29 Sub good for 30 years (steel). Issue with corrosion of super (joints). With normal maintenance bridge should be good until 2030.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	06-Dec-2014		Previous Inspection Date	07-Jun-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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