

Bridge Inspection											
Bridge File Number	07549 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1969/1969				Lot No.	2					
Bridge or Town Name	BEAUVALLON				Inspector Name	Owen Salava					
Located Over	VERMILION RIVER, 6.5, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	631:04 C1 25.092				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	15-Jul-2011					
Legal Land Location	SW SEC 3 TWP 53 RGE 10 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-111:23:34, 53:32:29				Data Entry Date	25-Aug-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA15				Review Date	19-Jul-2011					
Clear Roadway/Skew	9.1 / 15 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	80 / 2010 (A)				Dept. Review Date	29-Aug-2011					
Road Classification	RLU-209G-90				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 30 GIRDER			Semi	CS2 49 GIRDER			Train	CS3 70 GIRDER	----> 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)	Yes								
Remarks	All HM installed on guardrail post - not to std.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	S ditch.				Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Field entrance 40m NE. Hills E & W. Limited sight distance both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	11.200				Not thriebeam.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	23.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	4	Drainage at corners causing hslp erosion (photos).				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HC, 3 Spans, Lengths(m): 10.1-10.1-10.1, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Some gravel on deck.	
Last	0	0	0	0		
Now	10.0	0.0	0.0	0.0		
Wearing Surface			5	X		
(Material Type :)						
(Thickness(mm) :)						
Lateral Connection Problem (Y/N)		No				
Deck Top			7	6	Some girder top abraided. S1G7 local edge spall. Connector/lift pockets not grouted flush.	
Deck Rideability			7	7		
Deck Joints			4	4	Buffer angles. S1G4 at A1 missing buffer angle.	
Bump (Y/N)		No				
Deck Drainage			7	7	Drains between girders.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	6	Minor scrapes.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			5	5	Single layer - not to std.	
(Type : FLEX BEAM)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type :)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	11	0	0	0		
Now	11	0	0	0		
Girders			N	4	Unable to inspect centre span due to high water. Girders in S1 & 3 rates longit. crack in 1 leg S3G5 in AZ.	
Last Complete Inspection Date						
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 33)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating			3	4		

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1500)							
(Total Number of Caps/Corbels : 3:3)							
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				6	7		
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 305)							
Backwalls/Breastwalls			4	4			
Greatest Height (m)		2.90					
Wingwalls			7	7			
(Total Number of Bearing Piles : 8:8)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	0	0			
Piles				5	5		
Paint/Coating				X	X		
Abutment Stability				7	7		
Scour/Erosion				4	4		
NE breastwall starting to lose fill from behind (photo).							
Piers/Bents							
(Type : PIER-COLUMN)							
Max deck to S/B 4.9m.							
(Total Number of Caps/Corbels : 3:3)							
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				4	7		
(Type : TREATED TIMBER)							
(Depth(mm) : 305)							
(Width(mm) : 305)							
(Total Number of Bearing Piles : 10:10)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	100	0	0	0			
Now	20	0	0	0			
Pier Shaft/Piles				N	N		
Greatest Height (m)		3.00					
Bracing/Struts/Sheathing			7	6			
Nose Plate			7	7			
Paint/Coating				5	5		
Lower nose corroded.							
Red.							
(Colour Description :)							
(Colour Code :)							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	No			
Substructure General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.4			
Drift (Y/N)	Yes			
Slope Protection		X	4	Minor erosion from roadway drainage.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		7	7	
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	2012	15cu.m CL 1.					
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Restore E headslope & extend sheathing on E backwall.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/50.0	Sufficiency Rating (Last/Now) (%)	59.6/63.9	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Caps cored July 1990 by D. Robinson; no rot found.		Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	Bridge should be adequate until 2021. CB						
On 3-Year Program (Y/N)	Y						
Proposed Action	Core substructure in 2009. CB						
Previous Inspector's Name	Glen Smith		Previous Assistant's Name				
Next Inspection Date	15-Oct-2014		Previous Inspection Date	13-Jun-2007			
Inspection Cycle (Default) (months)	39						

Comment	
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