

Bridge Inspection									
Bridge File Number	07734 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1982/1982				Lot No.	2			
Bridge or Town Name	CARSTAIRS				Inspector Name	Owen Salava			
Located Over	LONEPINE CREEK, 3.46.21, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	791:06 C1 32.605				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Oct-2011			
Legal Land Location	SW SEC 20 TWP 31 RGE 27 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:48:29, 51:40:06				Data Entry Date	24-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA29				Review Date	13-Nov-2011			
Clear Roadway/Skew	8.8 / -30 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	370 / 2010 (A)				Dept. Review Date	24-Nov-2011			
Road Classification	RCU-208-110				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:	MS23						---> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
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	Too low, at varying heights, set off bridge.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	Both r/w's.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	Hill & intersection to South.	
Vertical Alignment		7	7		
Roadway Width (m)	10.000			Insufficient length & posts.	
Approach Bump		7	7		
Guardrail (Y/N)	Yes				
Guardrail		5	5		
Length (m)	7.600				
Current Standard (Y/N)	No				
Termination Type	Turn Down				
Drainage		7	5	Minor erosion at hslps from surface drainage.	
Approach Road General Rating		7	7		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 8-10-8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Transverse crack developing over piers & abuts.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered.
Deck Rideability			8	8	
Deck Joints			N	N	Joints ACP covered.
Bump (Y/N)		No			
Deck Drainage			7	7	No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Mapping cracks on face of curb, sealed. Small spall @ S1G8 over P1, sealed - photo.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			4	4	Diagonal cracks most curb units. Narrow longit. crack center, 1 girder on S3. S1, E curb unit 0.5m longit. crack @ abut. 2 lift pockets with deteriorated grout @ curbs.
Last Complete Inspection Date		26-Oct-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 24)					
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) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 510)						
(Width(mm) : 630)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.00				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)				Buried.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100					
Now	100	0	0	0		
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				8	8	
Scour/Erosion				9	5	
Minor erosion at corners from surface erosion.						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 6:6)				HP.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		3.95				
Bracing/Struts/Sheathing				8	8	
Nose Plate				8	8	
Paint/Coating				5	5	
Paint missing at waterline. Blue.						
(Colour Description :)						
(Colour Code :)						
Pier Stability				8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	6	
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandering.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	5	Cut banks to west & East. Small erosion gully developing @ NW.
HWM (m below Top of Curb)	2.2			(01/Mar/2006)
Drift (Y/N)	No			
Slope Protection		8	8	Overgrown with vegetation.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(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										
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										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Reinstall hazard markers to meet standard.								
OTHER ACTION	2012	Grout pockets @ curbs & repair spalled East curb over P1.								
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.								
OTHER ACTION	2012	Seal transverse crack in ACP over P1&2 and A1&2.								
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	64.6/64.5	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes	Estimated Total	0	
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date									
Proposed Long-Term Strategy	2006.09.12With minor routine repairs the structure should provide acceptable service until approximately 2040.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam		Previous Assistant's Name							
Next Inspection Date	26-Jan-2015		Previous Inspection Date		22-Sep-2009					
Inspection Cycle (Default) (months)	39									
Comment										

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						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Reinstall hazard markers to meet standard.	Operations	2013		
OTHER ACTION	2012	Grout pockets @ curbs & repair spalled East curb over P1.	Programmed	2013		
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.	Operations	2013		
OTHER ACTION	2012	Seal transverse crack in ACP over P1&2 and A1&2.	Operations	2013		
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	64.6/64.5	Est. Repl. Yr	2040	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	30-Oct-2012	Estimated Total	0
Proposed Long-Term Strategy	2006.09.12With minor routine repairs the structure should provide acceptable service until approximately 2040.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name			
Next Inspection Date	26-Jan-2015		Previous Inspection Date	22-Sep-2009		

Inspection Cycle (Default) (months)	39
Comment	