

Bridge Inspection							
Bridge File Number	07684 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1965/1965			Lot No.	1		
Bridge or Town Name	CEREAL			Inspector Name	Jason Saly		
Located Over	SOUNDING CREEK, 4.4, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	886:06 C1 16.136			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	23-Nov-2010		
Legal Land Location	NW SEC 9 TWP 30 RGE 6 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-110:48:07, 51:33:39			Data Entry Date	05-Jan-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA22			Review Date	11-Dec-2010		
Clear Roadway/Skew	8.2 / -30 deg. (LHF)			Dept. Reviewer Name	Chris Black		
AADT/Year	220 / 2009 (A)			Dept. Review Date	12-Jan-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	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	Missing HM at NE. HM at SW misplaced.							
Other Sign Types								

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West curb.		Gas
Power			Municipal
Others			Problem (Y/N) Yes
Remarks	Loosely laying on both pier caps.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Straight paved. T intersection 100m NW. Limited sight distance to N, in bottom of sag.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			Broken TT posts at SW. Too low & not connected to the bridge - 0.3m above roadway missing 12 splice bolts
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	15.240			
Current Standard (Y/N)	No			Snow covered.
Termination Type	TURN DOWN ENDS			
Drainage		7	N	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered.
Last	0	0	0	0	
Now	95.0	0.0	0.0	0.0	
Wearing Surface				5	5
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top				N	N
Paved over.					
Deck Rideability				5	5
Deck Joints				N	N
Paved over.					
Bump (Y/N)		No			
Deck Drainage				7	N
Snow covered.					
Drains Clogged (Y/N)		No			
Curbs/Median				6	N
Corners chipped. Snow covered.					
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail				7	7
Double layer					
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts				7	N
Snow covered.					
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating				7	6
(Type : GALVANIZED)					
Sidewalk				X	X
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders				6	6
Typical flexural cracking.					
Last Complete Inspection Date		23-Nov-2010		Long. cks at midspan.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No		Span 1 not properly centered on west end of P1	
Horizontal (Y/N)		No			
Bearing 120mm - still adequate					
Superstructure General Rating				6	6

Substructure						
Bridge Component			Last	Now	Explanation of Condition	
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : 3:3)					2 - 12 x 14 x 18" caps.	
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	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
Backwalls/Breastwalls			6	6	Top plank at south end is dislodged. N backwall is bulging.	
Greatest Height (m)		1.60				
Wingwalls			7	6		
(Total Number of Bearing Piles : 7:7)					(2 piles on N abut are moving from under cap (stable at this time). 29Jan2009). SE corner - 2 outside piles split, 2nd pile had been banded but banding broken.	
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				5	4	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				7	6	
Piers/Bents						
(Type : PIER-COLUMN)						
(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	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 356)						
(Total Number of Bearing Piles : 8:8)					Wide checks in pier plates. W pile at P2 has wide check.	
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				5	5	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing			4	4	Missing top connection bolt @ 1 bracing @ each pier. 1 split bracing @ P2.	
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	P1 leans north approx 150mm at west end.
Scour		6	N	
Debris (Y/N)	No			
Substructure General Rating		5	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandering.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Minor cut bank 120m W channel.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	5	
(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	2011	Replace 12 missing splice bolts - approach rail							
SEAL CURBS									
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS	2011	Core pier piles (if not already done)							
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL STRUTS									
OTHER ACTION	2011	Treat/band split piles (2). At abut 1							
OTHER ACTION	2011	Install 2 missing sway brace bolts at legs							
OTHER ACTION	2011	Proper attachment of telus cable							
OTHER ACTION	2011	Replace NE HM. Reset SW HM.							
OTHER ACTION	2011	Replace 1 TT guardrail post.							
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	68.5/67.1	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes		
Special Comments for Next Inspection	Monitor W end of P1 movement.		Department Comments						
Maintenance Reviewed By			Date						
Proposed Long-Term Strategy	2004.12.27 Bridge should be ok until 2015 with normal maintenance.		Estimated Total	0					
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name						
Next Inspection Date	23-Feb-2014		Previous Inspection Date	29-Jan-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	2011	Replace 12 missing splice bolts - approach rail	When next on site			
SEAL CURBS						
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS	2011	Core pier piles (if not already done)	Cored 2011			
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2011	Treat/band split piles (2). At abut 1	When next on site			
OTHER ACTION	2011	Install 2 missing sway brace bolts at legs	When next on site			
OTHER ACTION	2011	Proper attachment of telus cable	Low priority			
OTHER ACTION	2011	Replace NE HM. Reset SW HM.	To operations			
OTHER ACTION	2011	Replace 1 TT guardrail post.	When next on site			
Structural Condition Rating (Last/Now) (%)	61.1/55.6	Sufficiency Rating (Last/Now) (%)	68.5/67.1	Est. Repl. Yr	2019	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Monitor W end of P1 movement.		Department Comments	Coring results from 2011 were good. Only concern was to band pile #7 on the S abutment. No action required at this time.		
Maintenance Reviewed By	Andrew Smikles	Date	12-Dec-2011	Estimated Total	0	
Proposed Long-Term Strategy	2004.12.27 Bridge should be ok until 2015 with normal maintenance.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name				
Next Inspection Date	23-Feb-2014	Previous Inspection Date	29-Jan-2009			

Inspection Cycle (Default) (months)	39
Comment	