

Bridge Inspection							
Bridge File Number	73169 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1963/1963			Lot No.	2		
Bridge or Town Name	SUNDRE			Inspector Name	Owen Salava		
Located Over	BRIDGELAND CREEK, 3.95.7, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	734:12 C1 18.590			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	29-Nov-2010		
Legal Land Location	SE SEC 21 TWP 32 RGE 10 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-115:21:06, 51:45:08			Data Entry Date	02-Jan-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	16-Dec-2010		
Clear Roadway/Skew	6.4 / 0 deg.			Dept. Reviewer Name	Chris Black		
AADT/Year	100 / 2009 (A)			Dept. Review Date	05-Jan-2011		
Road Classification	RCU-208G-90			Follow-Up By			
Detour Length (km)	165						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	Offline & too low.
Other Sign Types	"Bridgeland Creek" @ SE & NW corners, "Vehicle With Lugs Prohibited" @ NW corner - faded.

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Curves both ends.
Vertical Alignment		4	4	Slight sag curve at bridge, limited sight distance both directions.
Roadway Width (m)	7.000			
Approach Bump		7	7	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)	No			
Termination Type	None			
Drainage		7	7	
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 6.1, 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					
Now	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles covered by snow.
Bump (Y/N)		No			
Deck Drainage			5	5	
Drains Clogged (Y/N)		No			
Curbs/Median			3	N	(Two large holes at SW corner. 24Nov2005).
(Curb Type : Standard)					
Scaling (Percent Area)		25			
Bridge Rail			4	4	Single layer. Improper lap East rail - photo. 30% peeling - photo.
(Type : FLEX BEAM)					
Bridge Rail Posts			6	6	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			3	3	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			4	5	G1 medium longitudinal crack in East leg in AZ, ext 1/3 L from South abutment. G2 wide longitudinal crack in both legs outside AZ. G3 wide longitudinal crack outside AZ in West leg.
Last Complete Inspection Date		29-Nov-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					Not visible.
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	5	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1800)						
(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				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		3.00				
Wingwalls				5	5	
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	10	0	0	0		
Piles				4	N	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				4	N	
(Heavy gravel deposit forcing flow against South abutment - photo. 24Nov2005).						
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 :)						
(Depth(mm) :)						
(Width(mm) :)						
(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				2	2	
Log used for strut, only 2 remain - photo.						
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	GR carried forward from 24Nov2005.
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	N	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	6	Ice backwall to backwall.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	5	Slope protection rating from 24Nov2005 governs.

Maintenance Recommendations												
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	Structural Condition Rating (Last/Now) (%)	Sufficiency Rating (Last/Now) (%)	Est. Repl. Yr	Maint. Req. (Y/N)	Yes	
REPAIR/REPLACE BRIDGE RAIL	2011	Upgrade to double layer to meet standard, reinstall East rail lap.							2021			
SEAL CURBS	2011	Patch SW curb holes if not done.										
PATCH DECK												
OVERLAY DECK												
STRAIGHTEN/REPLACE MEMBERS												
WASHING	2011	Remove gravel from deck & inspect, if not done.										
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	2011	Install hazard markers to meet standard.										
OTHER ACTION	2011	Replace struts (6).										
OTHER ACTION	2011	Install approach rail.										
OTHER ACTION	2011	Either armour abutments or retrain channel under bridge.										
OTHER ACTION	2011	Replace sign "Vehicle With Lugs Prohibited" at NW & install at SE.										
OTHER ACTION												
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OTHER ACTION												
Structural Condition Rating (Last/Now) (%)	44.4/50.0						47.0/47.0	Sufficiency Rating (Last/Now) (%)	Est. Repl. Yr	2021	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Department Comments		Estimated Total 0									
Maintenance Reviewed By	Date		Estimated Total 0									
Proposed Long-Term Strategy	2004.05.30 Bridge ok until 2013.											
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Dave Lam		Previous Assistant's Name									
Next Inspection Date	28-Feb-2014		Previous Inspection Date		24-Nov-2005							

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	Upgrade to double layer to meet standard, reinstall East rail lap.	Defer, Low priority (Low traffic Volumes)			
SEAL CURBS	2011	Patch SW curb holes if not done.	Completed 2006			
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING	2011	Remove gravel from deck & inspect, if not done.	To Operations			
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	2011	Install hazard markers to meet standard.	To Operations			
OTHER ACTION	2011	Replace struts (6).	Defer, Replacement scheduled 2018			
OTHER ACTION	2011	Install approach rail.	To Operations			
OTHER ACTION	2011	Either armour abutments or retrain channel under bridge.	Defer, Replacement scheduled 2018			
OTHER ACTION	2011	Replace sign "Vehicle With Lugs Prohibited" at NW & install at SE.	To Operations			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	47.0/47.0	Est. Repl. Yr	2021	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Currently scheduled in PMA to be replaced in 2018. AS		
Maintenance Reviewed By	Andrew Smikles		Date	04-Apr-2012	Estimated Total	0

Proposed Long-Term Strategy	2004.05.30 Bridge ok until 2013.		
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	28-Feb-2014	Previous Inspection Date	24-Nov-2005
Inspection Cycle (Default) (months)	39		
Comment			