

Bridge Inspection									
Bridge File Number	70337 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1974/1974				Lot No.	1			
Bridge or Town Name	RIBSTONE				Inspector Name	Jason Saly			
Located Over	RIBSTONE CREEK, 5.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	610:04 C1 13.910				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	30-Nov-2012			
Legal Land Location	NE SEC 19 TWP 43 RGE 2 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-110:16:27, 52:43:27				Data Entry Date	17-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA15				Review Date	14-Dec-2012			
Clear Roadway/Skew	8.6 /				Dept. Reviewer Name	Darron Ahlstedt			
AADT/Year	680 / 2011 (A)				Dept. Review Date	30-Jan-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	70								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> 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	Installed too low. NW broken (photo).								
Other Sign Types	River ID								
Utilities (Located at)									
Utility Attachments									
Telephone	East & West r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Roadway curves N, E of the bridge; passing allowed.				
Vertical Alignment			8	8					
Roadway Width (m)	8.600								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	45.600								
Current Standard (Y/N)	Yes								
Termination Type	Turn Down								
Drainage			9	N	Snow covered.				
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Primary Span : VH, 1 Spans, Lengths(m): 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 at curbs.
Last	0	0	0	0		
Now	20.0	0.0	0.0	0.0		
Wearing Surface				7	7	
(Material Type : ACP)						
(Thickness(mm) : 75)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top				N	N	ACP covered.
Deck Rideability				7	7	
Deck Joints				N	N	(Buffer angles. 26Jan2010) - ACP covered.
Bump (Y/N)		No				
Deck Drainage				7	7	
Drains Clogged (Y/N)		No				
Curbs/Median				3	3	(Spall N P4,5 - photo; spall S, P1. 26Jan2010). (Spall NE corner - photo. Spall South P1, affects post anchorage (photo). 18Jun2012) - Snow covered, but spall below SW post plate viewed.
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail				7	7	Single layer. Missing 1 nut @ base of post @ SW corner. Spall behind SW post exposing stirrup. (Damage to 2nd post from E along S by wide load (photo). 18Jun2012). Post torn at top cap.
(Type : GALVANIZED STEEL FLEX BEAM)						
Bridge Rail Posts				3	3	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating				7	7	
(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	4		
Girders						
Last Complete Inspection Date		30-Nov-2012		4	3	Regular inspections for all girders rated 4 or less. G5 spall in AZ 1 leg with sound concrete. G2 spall just into AZ (end 1.1m from girder end) with large spall mid span, same leg - photos. All girders have at least 1 leg cracked. Stains from connector pockets G1,2,4,8,10 & cracking in ACP indicate deteriorated pockets.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		2				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : 11)						
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				4	3	

Substructure						
Bridge Component			Last	Now	Explanation of Condition	
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1300)						
(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	5	A1 N cap some horiz. checking. (Cored 2012 - no rot found. 18Jun2012).	
(Type : TREATED TIMBER)						
(Depth(mm) : 355)						
(Width(mm) : 305)						
Backwalls/Breastwalls			6	6		
Greatest Height (m)		2.50				
Wingwalls			5	5	NE top plank pulled off pile. No fill infiltration. (Damaged tin top at NE, NW (photo). 18Jun2012).	
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	2		
Now	0	0	0	2	A1P1,2 cracked, outer fibres separated from core 1/4 circumference. Need tin cap at NE extended backwall pile. (Rot with small void formed in A1P2. 18Jun2012). A2P6 crushing at strut, (no rot found in coring. 18Jun2012). Wide check in A1P1.	
Piles			3	3		
Paint/Coating			X	X		
Abutment Stability			5	5		
Scour/Erosion			7	N		
Piers/Bents						
(Type :)					(Max deck to S/B 3.3m. 26Jan2010).	
(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			4	4	Pile 1 strut jammed into G1, East end diaphragm, timbers ok.	
Nose Plate			X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Small beaver dam under bridge.
Substructure General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	N	(Roughly spread Class I under bridge. 18Jun2012) - Ice/snow covered.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	GR carried forward from 18Jun2012.

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install bridgerail post nut.					
SEAL CURBS	2013	Patch curb spalls, 0.2m3 OH-V.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS	2013	Patch G2,5,7 spalls, 0.1m3 OH-V.					
CORE TIMBER CAPS/CORBELS	2013	Core piles, assess repair options, if not yet done.					
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS	2013	Reset 1 strut onto piles.					
OTHER ACTION	2013	(Repair & reset HMs. 18Jun2012).					
OTHER ACTION	2013	Install new tin top NE extended backwall pile.					
OTHER ACTION	2013	(Post A1P2 & A2P6. 18Jun2012). Steel stub repair A1P1,P2, 2m long.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	58.1/49.5	Est. Repl. Yr	2030	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	29-Feb-2016		Previous Inspection Date	18-Jun-2012			
Inspection Cycle (Default) (months)	39						
Comment							