

Bridge Inspection									
Bridge File Number	72029 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1964/1964				Lot No.	3			
Bridge or Town Name	ROLLING HILL				Inspector Name	Jason Rusu			
Located Over	TWELVE MILE COULEE, 2.13.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	875:04 C1 24.977				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Mar-2012			
Legal Land Location	NW SEC 32 TWP 15 RGE 13 W4M				Data Entry By	Erin Roberts			
Longitude, Latitude	-111:46:07, 50:18:21				Data Entry Date	11-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	23-Mar-2012			
Clear Roadway/Skew	8.2 / -30 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	610 / 2011 (A)				Dept. Review Date	17-Apr-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	50								
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									
Other Sign Types	Bridge narrows								
Utilities (Located at)									
Utility Attachments									
Telephone	West side on curb unit & West r/w.				Gas	Crosses canal 40m East.			
Power	3 wires East crosses road 50m South				Municipal				
Others					Problem (Y/N)	No			
Remarks	Conduit disconnected.								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Not thriebeam.				
Vertical Alignment			9	9					
Roadway Width (m)	8.800								
Approach Bump			4	5					
Guardrail (Y/N)	Yes								
Guardrail			5	6					
Length (m)	7.800								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			7	7					
Approach Road General Rating			4	9					

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				Bridge is built over a CSP culvert encased in concrete.	
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	(5 key cracks @ North span, 3 @ center span & 5 @ South span.)02/05/15
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No			
Deck Drainage			6	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	5	4 spall locations with exposed rebar at SW.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			4	6	Repaired bridgerail. 2 Loose nuts @ West curb @ 1st post from North @ Span 3. Both nuts on Traffic side
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			4	4	
(Type : POST STEEL;POST STEEL)					
Bridge Rail/Posts Coating			4	5	
(Type : PAINT)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			4	4	9 girders have narrow to wide longitudinal cracks in 1 leg only. 4 have narrow shear cracks @ North span only.3 have narrow shear cracks in South span. S3 has 1 girder with wide and narrow crack in legs in AZ S1 has 1 girder with wide & Narrow crack in legs in AZ - curb
Last Complete Inspection Date		18-Mar-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No		25mm misalignment of center span	
Horizontal (Y/N)		Yes			
Superstructure General Rating			4	4	

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
Abutments								
(Extended Backwall Piles (Y/N) : Y)				Abutment piles and caps have fire damage. North abutment. Repaired by County. 6 mm deep charring @ South.				
(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								
Now	0	0	0				0	
Bearing Seats/Caps/Corbels							5	5
(Type : TREATED TIMBER)								
(Depth(mm) : 305)								
(Width(mm) : 305)								
Backwalls/Breastwalls				5	5			
Greatest Height (m)		1.50						
Wingwalls				5	5			
(Total Number of Bearing Piles : 8:8)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now	0	0	0	0				
Piles				5	5			
Paint/Coating				X	X			
Abutment Stability				6	6			
Scour/Erosion				4	4			
Erosion @ A1 @ SE Starting to undermine backwall.								
Piers/Bents								
(Type : PIER-COLUMN)				Piers, piles & bracing have fire damage - 6mm deep charring @ all				
(Total Number of Caps/Corbels : 3:3)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)				3 (count)	
Last								
Now	0	0	0				0	
Bearing Seats/Caps/Corbels							5	5
(Type : TREATED TIMBER)								
(Depth(mm) : 305)								
(Width(mm) : 356)								
(Total Number of Bearing Piles : 8:8)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last								
Now	0	0	0	0				
Pier Shaft/Piles				5	5			
Greatest Height (m)		3.00						
Bracing/Struts/Sheathing				4	4			
Nose Plate				X	X			
Paint/Coating				X	X			
(Colour Description :)								
(Colour Code :)								
Pier Stability				6	6			
One broken @ North and East end.								

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		5	5	Scoured to top of concrete of culvert, avg 1200mm deep. Culvert covered with concrete under bridge to prevent scour.
Debris (Y/N)	Yes			Old piles & Planks from wingwalls @ abuts
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				(Crack fill over culvert under bridge.) 02/05/15
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	3	Ditch drain failure @ NE.
HWM (m below Top of Curb)				None visible.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	3	

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	2012	Ditch erosion at NE reconnect CSP drain and re slope existing.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	51.0/55.2	Est. Repl. Yr	2020	Maint. Req. (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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	18-Jun-2015		Previous Inspection Date	17-Apr-2009			
Inspection Cycle (Default) (months)	39						
Comment							