

Bridge Inspection							
Bridge File Number	07816 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1966/1966			Lot No.	1		
Bridge or Town Name	ROUND HILL			Inspector Name	Jason Saly		
Located Over	AMISK CREEK, 6.62.15, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	834:02 C1 22.527			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	03-Jun-2010		
Legal Land Location	NW SEC 7 TWP 49 RGE 18 W4M			Data Entry By	Jill Potts		
Longitude, Latitude	-112:38:08, 53:13:14			Data Entry Date	01-Jul-2010		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA16			Review Date	24-Jun-2010		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	790 / 2009 (A)			Dept. Review Date	06-Jul-2010		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	3						
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								

Utilities (Located at)				
Utility Attachments				
Telephone	West r/w.		Gas	Crosses highway 3m North of bridge.
Power	3 wire 20m East of c/l.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection 100m North.
Vertical Alignment		8	7	
Roadway Width (m)	9.300			
Approach Bump		3	5	
Guardrail (Y/N)	Yes			Not attached to bridgerail.
Guardrail		3	5	
Length (m)	22.800			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	4	Fill eroded behind SW wingwall.
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 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 (%)	
Last	0	0	0	0	
Now					
Wearing Surface			4	4	4 longitudinal cracks on SBL & NBL, 3 transverse cracks in ACP wearing surface. Wide transverse crack @ both abutments.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			5	5	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	North curb has heavy scaling & spalling.
(Curb Type : Standard)					
Scaling (Percent Area)		40			
Bridge Rail			6	6	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(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	11	0	0	0	
Now	11				
Girders			N	N	(Most girders have drift pin spall - photo, narrow shear cracks. Girder 10 has patch punchouts, patches cracked - photo. Narrow shear cracks both legs, 4 girders North end. See separate detail girder rating sheet. No action required @ this time for cracked girder legs.) Small spall @ South end of East girder and North end of East girder. Curb lift pockets deteriorating.
Last Complete Inspection Date					
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 11)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	G.R. carried forward for two inspection cycles.

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1300)						
Water to deep to go under bridge.						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0			1		
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 355)						
(Width(mm) : 305)						
Backwalls/Breastwalls				N	N	(SW extended backwall plank broken. 04/Apr/2007)
Greatest Height (m)		2.70				
Wingwalls				3	3	SW wing has loss of fill from behind sheeting which is too high.
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	18	0	0	0		
Now	18					
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				X	X	
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				X	X	
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	(Small scour hole under bridge, no problem. 13/Nov/2003)
Debris (Y/N)	Yes			(Old nails sticking out of piles left from removed struts, hazard. Small amount of drift in scour hole. 13/Nov/2003)
Substructure General Rating		3	3	G.R. carried forward from pile rating 13/Nov/2003.
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)	1.7			(Grass in fence. 14/Apr/2007)
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2010	0.5m3 OH-V grout @ spall & lift pockets. Seal curbs.					
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS	2010	SW east backwall 4' x 10' x 2.5m.					
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2010	3m3 6/80 pitrun, if not yet done.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2010	Seal cracks in asphalt.					
OTHER ACTION	2010	Repair pile NP4 with HP stub (2.0m) or drive new H-pile, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	62.2/60.9	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Bridge should be ok until 2024 with maintenance.						
On 3-Year Program (Y/N)	Y						
Proposed Action	ACP overlay in a couple of years. Strip ACP, check connectors and pave max 50mm. Update bridge to rail connection. CB						
Previous Inspector's Name	Cameron Baron		Previous Assistant's Name				
Next Inspection Date	03-Sep-2013		Previous Inspection Date	14-Apr-2007			

Inspection Cycle (Default) (months)	39
Comment	