

Bridge Inspection									
Bridge File Number	78379 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1953/1953				Lot No.	2			
Bridge or Town Name	ARROWWOOD				Inspector Name	Garry Roberts			
Located Over	BRP - CARSE-BOW C, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	30-Nov-2012			
Legal Land Location	SW SEC 13 TWP 21 RGE 24 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-113:12:44, 50:46:37				Data Entry Date	01-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Paul Carrier			
Contract Main. Area	UNDEFINED CMA				Review Date	06-Dec-2012			
Clear Roadway/Skew	4.6 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	64 / 2012 (E)				Dept. Review Date	08-Jan-2013			
Road Classification	RLU-207G-60				Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single		Semi		Train		----> 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	Narrow bridge.								

Utilities (Located at)									
Utility Attachments									
Telephone	North side of bridge.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		4	4	Canal road curves each direction. Bridge is located in middle of hill. Steep hill to East. Located below environment canal siphon approximately 300m West of BF 78096.					
Vertical Alignment		4	4						
Roadway Width (m)	4.800								
Approach Bump			7	5					
Guardrail (Y/N)	Yes		Minor damage at SE- still functional.						
Guardrail									
Length (m)	12.000		Not thriebeam.						
Current Standard (Y/N)	No								
Termination Type	TURNDOWN								
Drainage			7	7					
Approach Road General Rating			4	4					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PX, 1 Spans, Lengths(m): 9.8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	90.0	0.0	0.0	0.0	
Wearing Surface				N	X
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top				N	Snow covered.
Deck Rideability			6	7	
Deck Joints			N	N	Buffer angles-snow covered.
Bump (Y/N)		No			
Deck Drainage			5	6	
Drains Clogged (Y/N)		No			
Curbs/Median			5	6	Timber wheelguards. 65x140mm size.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	7	Double layer flexbeam.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	7	
(Type : COPPER CHROMATE ARSENATE TREATED TIMBER;COPPER CHROMATE ARSENATE TREATED TIMBER)					
Bridge Rail/Posts Coating			8	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			7	7	
Last Complete Inspection Date		30-Nov-2012		Hairline and narrow flexural cracks.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 5)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			7	7	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : N)					
(Extended Backwall Piles Spacing(mm) :)					
(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				5	5
(Type : TREATED TIMBER)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls				5	5
Greatest Height (m)		2.60			
Wingwalls				7	4
SE wingwall pile rotted. SE wingwall still retains fill. CCA timber @ North wings.					
(Total Number of Bearing Piles : 4:4)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Piles				4	4
Paint/Coating				X	X
Abutment Stability				5	6
Scour/Erosion				9	9
Concrete spillway walls protect abuts.					
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	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Concrete spillway.
(D/S Direction : N)				
Alignment		9	9	
Bank Stability		9	9	
HWM (m below Top of Curb)				Controlled spillway.
Drift (Y/N)	No			
Slope Protection		9	9	
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	9	

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							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Treat NW pile with creosote.					
OTHER ACTION	2013	Remove top of SE wing and place lock-block retainer.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.0/61.1	Sufficiency Rating (Last/Now) (%)	42.8/51.6	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Check file for recent coring report. ERY may change dependent on coring results.		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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	30-Aug-2017		Previous Inspection Date	08-Nov-2004			
Inspection Cycle (Default) (months)	57						
Comment							