

Bridge Inspection							
Bridge File Number	77284 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1972/1972			Lot No.	1		
Bridge or Town Name	ARROWWOOD			Inspector Name	Garry Roberts		
Located Over	WID - IRRIGATION C, WATERCRS-IC			Inspector Class	BR CLS A		
Located On	547:04 C1 15.441			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	03-Jan-2012		
Legal Land Location	SW SEC 9 TWP 21 RGE 23 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-113:08:39, 50:45:50			Data Entry Date	29-Jan-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Joel Wozney		
Contract Main. Area	CMA25			Review Date	05-Jan-2012		
Clear Roadway/Skew	8.4 / -15 deg. (LHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	940 / 2010 (A)			Dept. Review Date	06-Feb-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	55						
Allowable Load (t):	Single	CS1 35 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 82 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)		In Advance (Y/N)		At Bridge (Y/N)
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)
Remarks	Not required						
Hazard Marker At Bridge (Y/N)	No						
Remarks							
Other Sign Types							

Utilities (Located at)							
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE						
Telephone	West ditch			Gas			
Power	3 line east - 3 line 100m N.			Municipal			
Others	Conduit under east curb			Problem (Y/N)		No	
Remarks							

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	Curve and grade to South Canal roads all corners.	
Vertical Alignment		5	5		
Roadway Width (m)	8.600			Turned down south end. Rounded north end.- Type 6 Not thriebeam	
Approach Bump		6	6		
Guardrail (Y/N)	Yes				
Guardrail		7	7		
Length (m)	10.000				
Current Standard (Y/N)	No				
Termination Type	TURN DOWN/ROUNDED				
Drainage		3	3	Erosion @ S.W. behind wing. 600mm dia x 600mm dp hole	
Approach Road General Rating		5	5		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 11.6-11.6-11.6, A-Ident Number:)					
Special Features					
Special Feature			N		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface		6	6	One line of longitudinal cracks between girders @ S/B lane.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7	Sawcuts and caulking over glands.	
Bump (Y/N)		No			
Deck Drainage		6	6		
Drains Clogged (Y/N)		No			
Curbs/Median		5	5		
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail		4	5	Double Layer Some dents. 3rd post from SW top ripped.- minor 12 post A/B nuts are not fully torqued	
(Type : FLEX BEAM)					
Bridge Rail Posts		5	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	6		
(Type :)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	10	
Now	0	0	0	15	
Girders		3	3	26/30 units with wide long cracks in AZ 15 with unsound concrete & cracks or spalls in both webs.	
Last Complete Inspection Date		03-Jan-2012			
Cracking (Y/N)		Yes		Tar filled pockets @ curbs.	
Spalling (Percent Area)		7			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating		3	3		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 1:1)						
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				7	7	
(Type : CONCRETE)						
(Depth(mm) : 650)						
(Width(mm) : 350)						
Backwalls/Breastwalls				X	X	
Greatest Height (m)		1.00				
Wingwalls				X	X	
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100	0	0	0		
Now	10	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				7	3	
erosion at SW is undermining cap end and eroding bank.						
Piers/Bents						
(Type : PIER-COLUMN)						
Some vert. cracking. Staining. & light scaling.						
(Total Number of Caps/Corbels : 1:1)						
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	6	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 400)						
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		5.20				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				4	4	
Some corrosion and peeling- 2%						
(Colour Description : GREEN)						
(Colour Code : 14090)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	7	
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Canal
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	3.0			NO visible HWM
Drift (Y/N)	No			
Slope Protection		8	8	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten post A/B nuts					
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							
OTHER ACTION	2012	Patch hole SW- behind wing 2m3 pitrun					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	62.7/64.0	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	03-Apr-2015		Previous Inspection Date	05-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							