

Bridge Inspection											
Bridge File Number	01271 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1967/1967				Lot No.	2					
Bridge or Town Name	TOFIELD				Inspector Name	Jason Saly					
Located Over	AMISK CREEK, 6.62.15, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	626:02 C1 8.437				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	26-Jun-2012					
Legal Land Location	NW SEC 27 TWP 50 RGE 18 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-112:33:22, 53:21:08				Data Entry Date	13-Jul-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA14				Review Date	05-Jul-2012					
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name						
AADT/Year	80 / 2012 (A)				Dept. Review Date						
Road Classification	RLU-209G-90				Follow-Up By						
Detour Length (km)	5										
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					Gas	11m South of c/l.				
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	8	Insufficient posts/spacing off bridge.				
Vertical Alignment			9	8					
Roadway Width (m)	9.000								
Approach Bump			7	5					
Guardrail (Y/N)			Yes						
Guardrail			8	7					
Length (m)	19.000								
Current Standard (Y/N)			No						
Termination Type			Turn Down						
Drainage			4	5					
Approach Road General Rating			9	8					

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			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Covered by gravel.
Last	100	0	0	0	
Now	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	(Shallow chips and deterioration of edges. Girder tops abraided - photo. 11Aug2009) - gravel on deck.
Deck Rideability			8	7	
Deck Joints			N	N	(Buffer angles missing @ S3G3 over P2 - photo. 11Aug2009).
Bump (Y/N)		Yes			
Deck Drainage			7	7	Also drains between girders.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Spalling at N curb near P2.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			4	7	Single layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(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)	Underside of bridge not accessible due to water levels.
Last	0	0	0	1	
Now	30	0	0	0	
Girders			3	N	(Hairline shear cracking in S1G3, S1G6, S3G3, with corrosion of steel in S1G8. All within AZ. Spall in underside of S2G10 (curb) within AZ. 02/Jan/2003). (S3G1 wide crack/spall inside AZ near E abut - photo. Rating based on whats visible. 11Aug2009).
Last Complete Inspection Date		02-Jan-2003			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
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	4	(G.R. carried forward. 30May2006). G.R. may be based on BIM manual prior to 2007 update.

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 : 4:4)				(Including 75 x 300 TT shim under subcaps. 11Aug2009).			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	8	0	0	0			
Bearing Seats/Caps/Corbels				5	4	Wide radial crack @ NW end - photo.	
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls				4	N		(NW backwall pulled away from extension pile - photo. 11Aug2009).
Greatest Height (m)		2.90					
Wingwalls				6	6		
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	14	0	0	0			
Piles				4	4	(NW corner pile is cracked - photo. 11Aug2009) - Could not access due to water levels; rating maintained based on previous insepctor's comments.	
Paint/Coating				X	X		
Abutment Stability				7	N		
Scour/Erosion				7	N		
Piers/Bents							
(Type : PIER-COLUMN)							
(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		(Cracks in pier 1 P4, Pier 2 P2,P4,P5. 02/Jan/2003) (Minor checking in all caps. Vertical split south end of pier 2. Underneath not accessible due to height of water. 11Aug 2009). - Could not access due to water levels.	
Now	6	0	0	0			
Bearing Seats/Caps/Corbels				4	N		
(Type : TREATED TIMBER)							
(Depth(mm) : 300)							
(Width(mm) : 350)							
(Total Number of Bearing Piles : 8:8)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	16	0	0	0			
Pier Shaft/Piles				4	N		
Greatest Height (m)		3.50					
Bracing/Struts/Sheathing				4	N	(Several struts checked. 02/01/03) (Sheathing on both piers at first 4 piles. 11Aug2009). (2 bracing split - photo. Sheathing is too high. 11Aug2009).	
Nose Plate				5	N		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	N	
Scour		7	N	
Debris (Y/N)	Yes			(Old piles in streambed under bridge. 11Aug2009).
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				(Floodplain storage @ 1.8m below deck. 30/May/2006) - HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	N	Sparce.
(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		6	6	

Maintenance Recommendations									
Inspector Recommendations		Year	Inspector Comments		Department Comments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
SEAL CURBS		2012	Patch scaling/cracked North curb @ pier 2.						
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING		2012	Remove gravel from girder top.						
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION		2012	Trim off top section of old piles in streambed, if not yet done.						
INSTALL STRUTS									
OTHER ACTION		2012	Band cracked pile @ NW corner, if not yet done.						
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Structural Condition Rating (Last/Now) (%)		38.9/	Sufficiency Rating (Last/Now) (%)		61.7/	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for joints.				Department Comments	Replacement programmed for 2022			
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	Brian Cote				
Next Inspection Date	26-Sep-2015			Previous Inspection Date	18-Jun-2012				

Inspection Cycle (Default) (months)	39
Comment	