

Bridge Inspection							
Bridge File Number	13693 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1958/1958			Lot No.	1		
Bridge or Town Name	PENHOLD			Inspector Name	Jason Saly		
Located Over	TINDASTOLL CREEK, 3.88.2, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	781:02 C1 6.802			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	21-Nov-2011		
Legal Land Location	SW SEC 4 TWP 37 RGE 1 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:05:49, 52:08:50			Data Entry Date	21-Dec-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA19			Review Date	15-Dec-2011		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name	Chris Black		
AADT/Year	1,570 / 2010 (A)			Dept. Review Date	25-Jan-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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)	No							
Remarks	Not required.							
Other Sign Types	100 kph; info							

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	300m N of SH592 junction.
Vertical Alignment		8	7	
Roadway Width (m)	9.100			(Losing fill, ACP delam @ both abuts. 23May2005). Slight settlement @ N approach.
Approach Bump		4	5	
Guardrail (Y/N)	Yes			Minor creasing.
Guardrail		7	6	SE & NW - 53.2m; SW & NE - 45.6m.
Length (m)	45.600			
Current Standard (Y/N)	Yes			
Termination Type	TURN DOWN ENDS			
Drainage		7	6	
<b>Approach Road General Rating</b>		<b>4</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 2 Spans, Lengths(m): 6.1-6.1, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			4	X	
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)					
Deck Top			N	4	20mm gap btwn S2G10-11. Trans. crack patched in S2G7, spalling. End of girders spalled.
Deck Rideability			7	6	
Deck Joints			4	4	Some girder ends missing buffer angles. No action required.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Repaired Aug/95.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail			6	6	Single layer.
(Type : <b>FLEX BEAM</b> )					
Bridge Rail Posts		6	6		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		3	3	Posts rusted - need galv. (photo). Monitor paint for now.	
(Type : <b>PAINT</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	4	
Girders			N	3	S1G6-7 & S2G4-5 have spalling of both legs in the AZ; no action required other than regular inspection. 10 of 11 girders of S1 have cracks in both legs within the AZ; 5 of the 11 girders have spalling in AZ. 9 of 11 girders on S2 have cracks in both legs within the AZ & 4 of the girders have spalling in the AZ.
Last Complete Inspection Date		21-Nov-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		3			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 22)					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
<b>Abutments</b>									
(Extended Backwall Piles (Y/N) : <b>N</b> )									
(Extended Backwall Piles Spacing(mm) : )									
(Total Number of Caps/Corbels : <b>4:4</b> )				Plus shims. 70mm x 250mm; 250mm x 70mm					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
<b>Last</b>									
<b>Now</b>	0	0	0				0		
Bearing Seats/Caps/Corbels							7	7	
(Type : <b>TREATED TIMBER</b> )									
(Depth(mm) : <b>300</b> )									
(Width(mm) : <b>360</b> )									
Backwalls/Breastwalls			N				6	Planks placed on inside of piles.	
Greatest Height (m)		2.60							
Wingwalls			4	4	NE wingwall top plank broken; 2nd plank damaged. NW wingwall showing rot. 4th plank from top shows signs of rot.				
(Total Number of Bearing Piles : <b>8:8</b> )									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
<b>Last</b>									
<b>Now</b>	0	0	0	0					
Piles			N	6					
Paint/Coating			X	X					
Abutment Stability			N	6					
Scour/Erosion			N	6					
<b>Piers/Bents</b>									
(Type : <b>PIER-COLUMN</b> )									
(Total Number of Caps/Corbels : <b>4</b> )									
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
<b>Last</b>									
<b>Now</b>	0	0	0	0					
Bearing Seats/Caps/Corbels				7	7				
(Type : <b>TREATED TIMBER</b> )									
(Depth(mm) : )									
(Width(mm) : )									
(Total Number of Bearing Piles : <b>0</b> )									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
<b>Last</b>									
<b>Now</b>	0	0	0	0					
Pier Shaft/Piles			N	5	Replaced in 1992. Double cap plus 100 x 300 TT shim, full length.				
Greatest Height (m)		2.25							
Bracing/Struts/Sheathing			6	5			Bracing 70mm x 300mm. Struts 150mm x 140mm x 5.56m. Brace bent.		
Nose Plate			X	X					
Paint/Coating			X	X					
(Colour Description : )									
(Colour Code : )									
Pier Stability			7	7					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		6	N	Ice covered.
Debris (Y/N)	Yes			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : )				Check direction when river is not frozen.
(D/S Direction : )				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM unknown.
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>5</b>	



Next Inspection Date	21-Feb-2015	Previous Inspection Date	28-May-2005
Inspection Cycle (Default) (months)	39		
Comment			

**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	2012	Replace 2 planks in NE wingwall top.	Defer (Low priority, replacement scheduled)	2017			
OTHER ACTION	2012	Replace rotten planks on NW wingwall.	Defer (Low priority, replacement scheduled)	2017			
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>54.4/59.2</b>	Est. Repl. Yr	2023	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	No action for girders required at this time.		Department Comments	Tentatively programmed to be replaced 2017. AS			
Maintenance Reviewed By	Andrew Smikles		Date	20-Jul-2012	Estimated Total	0	

Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	21-Feb-2015	Previous Inspection Date	28-May-2005
Inspection Cycle (Default) (months)	39		
Comment			