

Bridge Inspection										
Bridge File Number	72567 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1966/1966				Lot No.	2				
Bridge or Town Name	THERIEN				Inspector Name	Todd Warshawski				
Located Over	COLUMBINE CREEK, 7.13, WATERCRS-ST				Inspector Class	BR CLS B				
Located On	660:02 C1 1.738				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	15-Dec-2011				
Legal Land Location	SW SEC 14 TWP 61 RGE 9 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-111:15:06, 54:16:04				Data Entry Date	11-Jan-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA08				Review Date	30-Dec-2011				
Clear Roadway/Skew	10.7 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	780 / 2010 (A)				Dept. Review Date	18-Jan-2012				
Road Classification	RCU-210-110				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	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	SE, NW missing. Not required.								
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	South r/w.				Gas	In North ditch.				
Power	1 wire North r/w.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Intersection to West, entrance to East.				
Vertical Alignment			8	8					
Roadway Width (m)	9.500				Wide ACP crack at both abutment joints.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Insufficient posts/length & not thrie beam transition.				
Guardrail			7	7					
Length (m)	15.200								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 8.5, A-Ident Number: )</b>					
<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>					
Wearing Surface			6	6	Longitudinal cracks at all girder lines.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles. Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			9	8	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)					
Bridge Rail			4	4	Double layer improperly lapped/spliced on all corners.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			6	6	Galvanized posts painted and posts peeling.
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			4	4	
(Type : <b>PAINT</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders			5	4	G2,G7,G10 wide long cracks/spalls in/out of AZ on 2 legs with sound concrete. G3,G6,G8,G9 wide long cracks/spalls in/out of AZ on 1 leg with sound concrete. Several patched punchouts. Map cracking with stains on deck underside drift pin spalls G2-G10.
Last Complete Inspection Date		15-Dec-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>11</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>4</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1400)						
Backwall clamps, several installed too low.						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		3.30				
Wingwalls				6	4	2 piles/wall Torn tintop at SE
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				6	6	
Paint/Coating				X	X	
Abutment Stability				6	6	
Scour/Erosion				4	N	Scour hole under bridge.
<b>Piers/Bents</b>						
(Type : )						
(Total Number of Caps/Corbels : )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
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)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	Yes			Beaver dam - berm across South edge of bridge.
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible. Large berm across channel @ South side - photo.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Upgrade/repair bridgerail.					
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	2012	Remove berm across South channel under bridge.					
INSTALL STRUTS	2012	Seal cracks in ACP @ abutment joints & longitudinal cracks.					
OTHER ACTION	2012	Repair torn tintop.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>70.1/67.5</b>	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	15-Mar-2015		Previous Inspection Date	09-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							