

Bridge Inspection									
Bridge File Number	70546 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	GRIMSHAW				Inspector Name	Brian Pientsch			
Located Over	CARDINAL CREEK, 8.10.48.3, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	737:02 C1 33.993				Assistant Name	Clem Guenette			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	25-Mar-2013			
Legal Land Location	SE SEC 26 TWP 84 RGE 24 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:40:32, 56:18:21				Data Entry Date	10-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	03-Apr-2013			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name				
AADT/Year	320 / 2012 (A)				Dept. Review Date				
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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	Installed too low & SE & SW signs facing wrong direction.								
Other Sign Types	Bump, both directions.								

Utilities (Located at)									
Utility Attachments									
Telephone	SOUTH DITCH				Gas				
Power	11 M N. OF C/L-2 wire				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Bump in WBL.				
Vertical Alignment			8	8					
Roadway Width (m)		9.400							
Approach Bump			4	4	Bump in WBL. ACP cracked on both abutments.				
Guardrail (Y/N)		Yes							
Guardrail			8	7					
Length (m)		22.800							
Current Standard (Y/N)		No							
Termination Type		TURN DOWN							
Drainage			7	6	Some ponding @ West approach due to snow melt.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 1 Spans, Lengths(m): 6, 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>	10.0				
Wearing Surface			4	5	ACP is cracked along 4 girder lines. Heavy corrosion staining on deck underside from connection pockets.
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			5	5	
Deck Joints			N	N	Covered by ACP.
Bump (Y/N)		No			
Deck Drainage			7	5	NO DRAINS
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Lift hook pockets not grouted.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Both bridgerails damaged at east end. North bridgerail is bent up (photo). South bridgerail is bent down (photo).
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>				1	
Girders			7	3	A few rust spots on underside originating from debris left in forms during casting. G1 spall both ends, hole 300m DPx100mmx100mm. G8 hairline cracking and efflorescence. Curb lift pockets not grouted.
Last Complete Inspection Date		25-Mar-2013			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : <b>9</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>7</b>	<b>3</b>	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>1000</b> )						
E ABUT CAP MAY BE MOVING IN. MEASURED 111mm FROM PLATE TO EDGE OF CAP @ A2,P2. Still the same.						
(Total Number of Caps/Corbels : <b>3:3</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels				7	6	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>300</b> )						
(Width(mm) : <b>350</b> )						
Backwalls/Breastwalls				7	6	SW corner of backwall charred, plank bent inward @ NW side - no loss of material.
Greatest Height (m)		1.30				
Wingwalls				5	4	Tintops missing on SW wingwall (photo).
(Total Number of Bearing Piles : <b>10:10</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				7	6	
Scour/Erosion				7	7	
<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)	No			
<b>Substructure General Rating</b>		<b>6</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
Drift (Y/N)	No			
Slope Protection		7	N	Snow covered
(Type : )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	2013						
SEAL CURBS	2013	Grout lift hook pockets.					
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	place tintops on SW wingwall.					
OTHER ACTION	2013	Repair bump on E. Approach.					
OTHER ACTION	2013	Switch SE with SW Hazard Marker.					
OTHER ACTION	2013	Patch hole in girder 1.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.3/60.8</b>	Est. Repl. Yr	2033	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	25-Jun-2016		Previous Inspection Date	08-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							