

Bridge Inspection									
Bridge File Number	08573 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1964/1964				Lot No.	2			
Bridge or Town Name	GRIMSHAW				Inspector Name	Brian Pientsch			
Located Over	TRIBUTARY TO CARDINAL CREEK, 8.10.48.3.5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	685:06 C1 22.554				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Nov-2012			
Legal Land Location	SW SEC 17 TWP 83 RGE 24 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:45:31, 56:11:21				Data Entry Date	09-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	08-Jan-2013			
Clear Roadway/Skew	9.2 /				Dept. Reviewer Name	David Morrison			
AADT/Year	480 / 2011 (A)				Dept. Review Date	18-Mar-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	8								
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 67 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)	No								
Remarks	Not required.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	15 M SOUTH				Gas				
Power	15 M NORTH				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Access 100m East.				
Vertical Alignment			8	8					
Roadway Width (m)	9.500								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				2 split posts NE.				
Guardrail			3	7					
Length (m)	57.000								
Current Standard (Y/N)	Yes								
Termination Type	TURN DOWN								
Drainage			8	8					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 1 Spans, Lengths(m): 4.9, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			9	8	
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	Double
(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)	
Last					
Now					
Girders			4	4	G7-1leg spalled in AZ. Inside AZ G6 both legs Wide cracks inside AZ G2,G4 one leg. G5 wide cracks outside AZ both legs.
Last Complete Inspection Date		27-Nov-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			Lift hook pockets on curbs not grouted.
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 12)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	4	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 2000)							
(Total Number of Caps/Corbels : 5:5)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Bearing Seats/Caps/Corbels				4	4	Extra caps installed to raise bridge. E. caps have pushed in 160mm. Subcap on W. abutment is pushing in. No change	
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls				3	3	Backwall pushing in on E & W side. 2 broken planks and 50mm gaps in W abutment + loss of material.- photos	
Greatest Height (m)		2.50					
Broken nailing cleat on NE & NW wall.-photo							
Wingwalls				4	5	Broken nailing cleat on NE wall.	
(Total Number of Bearing Piles : 9:9)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Piles				4	5		
Paint/Coating				X	X		
Abutment Stability				4	3	Broken backwall planks allowing approach fill to migrate through reativg psooible voids in approach fills.	
Scour/Erosion				7	7		
Piers/Bents							
(Type :)							
(Total Number of Caps/Corbels :)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
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)			
Last							
Now							
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			6 Old piles
Substructure General Rating		4	3	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
OTHER ACTION	2013	Install backwall planks on front of piles on both abutments.					
OTHER ACTION	2013	Replace nailing cleat on NW & NE wingwall.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/38.9	Sufficiency Rating (Last/Now) (%)	64.1/61.4	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Cap location on E abutment marked on side of girder. Monitor movement. No change 27-Nov-2012		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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	27-Feb-2016		Previous Inspection Date	30-Aug-2012			
Inspection Cycle (Default) (months)	39						
Comment							