

Bridge Inspection									
Bridge File Number	71048 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1987/1987				Lot No.	1			
Bridge or Town Name	BLACK DIAMON				Inspector Name	Jon Davies			
Located Over	LINEHAM CREEK, 2.13.27.2.15, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	546:02 C1 8.816				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	08-Feb-2013			
Legal Land Location	SW SEC 4 TWP 20 RGE 3 W5M				Data Entry By	Lauren Korte			
Longitude, Latitude	-114:21:35, 50:39:34				Data Entry Date	09-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA27				Review Date	21-Feb-2013			
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	770 / 2011 (A)				Dept. Review Date	13-Mar-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	10								
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)	No								
Remarks	Not required.								
Other Sign Types									

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

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Not thrie beam.				
Vertical Alignment			8	8					
Roadway Width (m)		8.800							
Approach Bump			5	6					
Guardrail (Y/N)		Yes							
Guardrail			6	6					
Length (m)		19.000							
Current Standard (Y/N)		Yes							
Termination Type		TURNDOWN							
Drainage			6	6					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 1 Spans, Lengths(m): 8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	10.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	3	Moderate edge spalls at 1 edge of G2,G4,G6,G7.
Deck Rideability			7	6	
Deck Joints			N	N	Buffer angles, mainly covered with asphalt. Minor bump in both directions.
Bump (Y/N)		Yes			
Deck Drainage			5	5	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(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	0	0	0	0	
Now	0	0	1	3	
Girders			6	2	G2 has crack with corrosion at underside. Narrow longitudinal cracks with corrosion stains. G2,G4,G6,G7 all have top edge spalls. Connector pocket stains throughout. Connector pocket grout is 75% spalled out at 10 locations.
Last Complete Inspection Date		08-Feb-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 8)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	2	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1300)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels				7	6
(Type : STEEL)					
(Depth(mm) : 370)					
(Width(mm) : 350)					
Backwalls/Breastwalls				8	7
Greatest Height (m)		3.60			
Wingwalls				6	6
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Piles				7	7
Paint/Coating				X	X
Abutment Stability				7	7
Scour/Erosion				5	5
Scour at A2 repaired at U/S and D/S.					
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
Paint/Coating				X	X
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				80 Degree Bend U/S.
(D/S Direction : S)				
Alignment		4	4	
Bank Stability		4	4	Moderate bank instability and slope failure at U/S.
HWM (m below Top of Curb)				HWM not visible. 500mm water over deck 7/98.
Drift (Y/N)	No			
Slope Protection		6	5	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Re-grout connectors pockets. At 10 locations. Edge spall repairs at G2,4,6 and 7-approx 32 LM.					
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	G2 crack with corrosion stains. Investigate and repair as required.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/44.4	Sufficiency Rating (Last/Now) (%)	65.9/54.2	Est. Repl. Yr	2030	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	08-May-2016		Previous Inspection Date	31-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							