

Bridge Inspection									
Bridge File Number	02487 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1962/1962				Lot No.	3			
Bridge or Town Name	BLACK DIAMON				Inspector Name	Garry Roberts			
Located Over	SHEEP RIVER, 2.13.27.2, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22:12 C1 18.638				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	17-Jun-2012			
Legal Land Location	NW SEC 8 TWP 20 RGE 2 W5M				Data Entry By	Erin Roberts			
Longitude, Latitude	-114:14:39, 50:41:17				Data Entry Date	16-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney			
Contract Main. Area	CMA27				Review Date	27-Jun-2012			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	7,400 / 2011 (A)				Dept. Review Date	17-Jul-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	50								
Allowable Load (t):	Single	CS1 33 GIRDER	Semi	CS2 49	Train	CS3 61 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		62
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	50 km zone.								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South & North r/w.				Gas				
Power	1 wire - 45.0m West, also 3 wires 50m North from c/l.				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	On curve & super elevation.				
Vertical Alignment			8	8					
Roadway Width (m)	11.000				Paving in progress at East.				
Approach Bump			6	5					
Guardrail (Y/N)	Yes				Wrong lap at SW and NE. Missing 9 splice bolts at NE and 8 at SE. Not thriebeam				
Guardrail			3	4					
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CX, 3 Spans, Lengths(m): 16.8-21.3-16.8, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Worn to concrete @ East- approx 5m2 Chipcoat on epoxy on concrete 70mm total thickness.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	
Temperature (deg. C)		12			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
80	West				
90	East				
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Vertical cracks approx every 600mm wide width. Parapets are cracked @ rail anchors - minor.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	2 A/B nuts with insufficient thread at NE
(Type : VERTICAL BAR)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type :)					
Sidewalk			X	X	
Girders			6	6	Fascia has 2 cracks total length - construction pour joint. Random staining on both spans - transverse cracks medium width 0.3 - 0.5mm approx every 1.0m. Rebar chairs are staining through underside. Efflorescence @ U/S cracks.
Diaphragms/Cross Frame			X	X	
Bearings			7	7	Fully expanded at both ends at 12 degrees Integral @ piers.
Temperature (deg. C)		12			
(Expansion Type : ROCKER BEARING)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			6	6	Corrosion stains @ deck drains. Parging 40% failed @ North exterior of slab.
Stains (Percent Area)		20			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CX, 3 Spans, Lengths(m): 16.8-21.3-16.8, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Pier Shaft/Piles		6	6	
Nose Plate		7	7	
Paint/Coating		4	4	25% corrosion @ nose plates
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Drift at piers
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		6	6	Vertical bank on downstream bend.
HWM (m below Top of Curb)	4.5			Trees + 1.5m high drift @ both piers
Drift (Y/N)	Yes			No visible HWM
Slope Protection		7	7	Concrete slope protection both ends above rock
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	Remove drift from piers.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	61.1/61.1	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	17-Mar-2014		Previous Inspection Date	06-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							