

Bridge Inspection							
Bridge File Number	70156 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1955/1955			Lot No.	3		
Bridge or Town Name	DEL BONITA			Inspector Name	Garry Roberts		
Located Over	NORTH MILK RIVER, 1.21, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	62:02 C1 11.755			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	14-Sep-2011		
Legal Land Location	NW SEC 5 TWP 2 RGE 21 W4M			Data Entry By	Alyssa Boynton		
Longitude, Latitude	-112:46:38, 49:05:38			Data Entry Date	25-Oct-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Ash Morjaria		
Contract Main. Area	CMA25			Review Date	08-Oct-2011		
Clear Roadway/Skew	7.3 / 30 deg. (RHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	360 / 2010 (A)			Dept. Review Date	28-Oct-2011		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	11						
Allowable Load (t):	Single	CS1 48 GIRDER	Semi	CS2 67 GIRDER	Train	CS3 91 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	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks	Not req.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks								
Other Sign Types	Creek I.D., Curve							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West side under curb.		Gas
Power			Municipal
Others	Plastic waterline (2" dia) along underside.		Problem (Y/N) No
Remarks	Abandoned		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to South in distance. Private/recr intersection 100m N On grade to the North. Limited sight distance.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			New rail and posts but settlement at several posts. Not thriebeam
Approach Bump		7	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	30.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		5	5	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 16.5-21.9-16.5, A-Ident Number: A0236-01)					
Special Features					
Special Feature			X	(Top pin station 2 sides B girder 1 has 1mm deep crack 56mm from end of pin @ 10:45 to 11:50.)	
(Type :)					
Hinge		4	4	Based on level 2 insp from 18-june-2007- Could not confirm	
(Hinge Type : PIN HANGER)					
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		6	6	Numerous transverse cracks. All sealed with epoxy.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		6	6		
Temperature (deg. C)		15			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
73		N abutment (A2)			
70		N hinge			
70		S hinge			
75		S abutment A1			
Deck Drainage		8	7		
Drains Clogged (Y/N)		No			
Curbs/Median		6	5	Light scale on E Curb @ top and medium scaling @ west curb top. Several cracks and minor spalls.	
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail		5	5	10 more do not have slots. 9 posts on East with black washers, 1 post no washers	
(Type : BRIDGE TUBE)					
Bridge Rail Posts		6	6	Missing most rail splice bolts but splice is welded at 1 end so not req.	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	6		
(Type :)					
Sidewalk		X	X		
Girder/Beam					
Cover Plate		7	7	Cover plates over piers only.	
Flange		7	7		
Web		7	7	Pin hanger.	
Stiffeners		7	7		
Splice		X	X		
Weld		6	6		
Diaphragms/Cross Frame		7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans, Lengths(m): 16.5-21.9-16.5, A-Ident Number: A0236-01)				
Paint Condition		6	5	
(Colour Description : GREEN)				
(Colour Code : 503-113)				
Touchup Required (Y/N)	No			
Bearings		5	5	1 nut (1 1/4") missing A1G2E Several A/B nuts not tight.
Temperature (deg. C)	15			
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Narrow longitudinal cracks between all girders. Hairline transverse cracks every 1.0m following the skew.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	Buried.
Paint/Coating		X	X	No evidence of active joint leakage.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				1m long vertical crack at base of east pile North pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 2:2)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	Eroding bank behind North pier at U/S side -minor & stabilized.
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		5	6	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		6	6	
(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		6	6	

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							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Repair settlement at approx 12 approach posts 0.5m3 ACP.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	67.4/67.2	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	14-Jun-2013		Previous Inspection Date	20-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							