

Bridge Inspection							
Bridge File Number	08028 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1961/1961			Lot No.	1		
Bridge or Town Name	BROCKET			Inspector Name	Garry Roberts		
Located Over	PINCHER CREEK, 2.12.31, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	3:06 C1 11.856			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	27-Nov-2011		
Legal Land Location	NW SEC 7 TWP 7 RGE 28 W4M			Data Entry By	Alyssa Boynton		
Longitude, Latitude	-113:47:40, 49:32:47			Data Entry Date	16-Dec-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Tom Carey		
Contract Main. Area	CMA26			Review Date	07-Dec-2011		
Clear Roadway/Skew	13.4 / -15 deg. (LHF)			Dept. Reviewer Name	Tim Davies		
AADT/Year	4,380 / 2010 (A)			Dept. Review Date	10-Jan-2012		
Road Classification	RAU-213-130			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 67 GIRDER	Semi	CS2 94 GIRDER	Train	CS3 103 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	River identification.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	Conduit undr South curb & @ South r/w.		Gas
Power	1 wire East, 2 wire 35m South of c/l.		Municipal
Others	Fibre optics @ South r/w. Cables cast directly into concrete.		Problem (Y/N) Yes
Remarks	Conduit is separated at SE.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Driveway 30m West of bridge. No passing EB & WB. Approaches both sides West end.
Vertical Alignment		6	6	
Roadway Width (m)	13.400			Damaged modified terminal end @ NE. Minor dents throughout. 1 splice bolt missing at SW and wrong lap at NE. Not thrie beam.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	30.000			
Current Standard (Y/N)	No			
Termination Type	Terminal			
Drainage		3	3	SE trough drain spalled allowing water under east approach slab.
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 3 Spans, Lengths(m): 15.8-19.5-15.8, A-Ident Number: A0350-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Transverse cracks. Largest cracks, 3mm near piers across width of deck.	
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	3	West abutment joint W/B lane paving lip breaking up @ approach. Missing 1 cover plate bolt W/B lane Abut. 2. and at E/B lane at A1.	
Temperature (deg. C)		5				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
75		West				
65		East				
Deck Drainage			6	6		
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	Transverse cracks.	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			7	7	95% of ABs have insufficient thread. 8 ABs either broken off or missing a nut. 2 anchor bolts missing NW and 2 SE and 1 at NE. 1 A/B nut missing Sp.3 south.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			3	3		
(Type : GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	6		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			3	3	{18 coverplate ends have cracks or unacceptable defects. 1 coverplate has a 130mm crack on side weld. All cracks marked on underside of girders. May 11, 2009 CP inspection} Gaps of approx 3-5mm at ends of most cover plates but no visible cracking in coverplates or welds. 10-15mm sweep @ centre span.	
Flange			7	7		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			3	3		
Diaphragms/Cross Frame			3	4	S3G6DO has a shifted connection on 1 side. Bolts might be loose.	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 3 Spans, Lengths(m): 15.8-19.5-15.8, A-Ident Number: A0350-01)					
Paint Condition		7	6		
(Colour Description : GREEN)					
(Colour Code : 14090)					
Touchup Required (Y/N)	No				
Bearings		5	6	3 bolts backed out to 20mm @ each abut.	
Temperature (deg. C)	5				
(Expansion Type : ROCKER BEARING)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	5	Lots of map cracking; efflorescence visible in new patched areas.	
Stains (Percent Area)	2				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		3	3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		5	6		
(Type : CONCRETE)					
Backwalls/Breastwalls		6	6		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		X	X	Buried	
Abutment Stability		7	7		
Scour/Erosion		7	7		
Piers/Bents					
(Type : PIER-SOLID)					Some vertical cracks.
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		X	X		
Nose Plate		7	7		
Paint/Coating		4	4		
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7	Minor corrosion at water line.	
Scour		N	6		
Debris (Y/N)	No				
Substructure General Rating		5	6		

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)		On curve in stream.		
(D/S Direction : N)				
Alignment		4	5	
Bank Stability		5	5	Vertical banks at SE, SW & NW.
HWM (m below Top of Curb)	1.0			(Drift on top of east pier. 99/06/10)
Drift (Y/N)	No			
Slope Protection		7	7	some 1000mm rock mixes in @ toe.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		4	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	{Replace bridgerail post anchor assemblies where ABs missing, install AB nuts (8 combined). Install 5 A/B and 1 A/B nut (1")					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK	2012	seal transverse cracks - GFE approx 50 lin M.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Patch West abutment paving lip - 0.05m3. Install 2 cover plate bolts - tighten all others.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Fill void at SE 0.5m3 grout and patch concrete trough.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	Repair all 18 coverplate ends that have cracks.					
OTHER ACTION							
OTHER ACTION	2012	Advise Telus to repair SE conduit					
OTHER ACTION	2012	Torque S3G6DO diaphragm bolts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	58.7/62.8	Est. Repl. Yr	2024	Maint. Req'd. (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	Randy Bredo	Previous Assistant's Name	Bryce Clayton
Next Inspection Date	27-Aug-2013	Previous Inspection Date	20-May-2010
Inspection Cycle (Default) (months)	21		
Comment			