

Bridge Inspection							
Bridge File Number	73425 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1959/1959			Lot No.	2		
Bridge or Town Name	KEG RIVER			Inspector Name	Brian Pientsch		
Located Over	KEG RIVER, 8.10.31, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	35:12 C1 0.034			Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year				Assistant Class	BR CLS B		
Navigabil. Cl./Year				Inspection Date	08-Dec-2011		
Legal Land Location	SW SEC 12 TWP 101 RGE 23 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-117:37:38, 57:44:44			Data Entry Date	14-Dec-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA01			Review Date	13-Dec-2011		
Clear Roadway/Skew	11 /			Dept. Reviewer Name	Steve Pasquan		
AADT/Year	1,100 / 2010 (A)			Dept. Review Date	10-Jan-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	200						
Allowable Load (t):	Single	CS1 77 GIRDER	Semi	CS2 100 GIRDER	Train	CS3 129 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 required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Spring loaded, not standard height.							
Other Sign Types	"Keg River", Bump in S/B lane.							

Utilities (Located at)			
Utility Attachments			
Telephone	East & West r/w.		Gas
Power	7 wires West boundary of r/w.		Municipal
Others	Water gauge station at South West.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Entrance 50m North. Curve at South approach. No passing both directions. Limited sight distance to south.
Vertical Alignment		6	6	
Roadway Width (m)	10.600			Insufficient posts, not thrie beam.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			
Guardrail		5	5	
Length (m)	30.400			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	
Approach Road General Rating		6	6	

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : RB, 2 Spans, Lengths(m): 19.8-19.8, A-Ident Number: A0306-01;A0306-02)								
Special Features								
Special Feature			X					
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.			
Last								
Now	20.0	0.0	0.0	0.0				
Wearing Surface				6	6			
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)								
(Thickness(mm) : 50)								
Deck Top			N	N				
Deck Rideability			5	5				
Deck Joints			3	N	1 bolt missing in curb cover plate @ SW & NW corners. 2 cover plates loose P1 SB lanes.-21-May-2009 Shoulders snow covered.			
Temperature (deg. C)		-25						
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))								
(Fixed Type :)								
Gap Size (mm)		Gap Location						
25		North abutment - A2						
42		Pier #1						
35		South abutment - A1						
Deck Drainage			5	4	Concrete stained at SW corner from joint leakage. Heavy scaling on SW and SE backwall/wingwall corners.			
Drains Clogged (Y/N)		No						
Curbs/Median			3	3	Spalling on outside of curbs with rebar showing along most of East side of S2 affecting post anchorage @ NE corner. -photo Spalled area in underside @ NW corner.			
(Curb Type : Standard)								
Scaling (Percent Area)		50						
Bridge Rail			3	3	Missing several rail nuts & 1 bolt broken East side post 7.-photo 8 anchor bolts missing. Posts 7 & 8 West side cut near bottom.-photo 10% insufficient thread.			
(Type : GALVANIZED STEEL NON-STANDARD RAIL)								
Bridge Rail Posts			3	3				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			5	5				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			7	7	Estimate 20mm sag in girder 5 both spans, neg camber in all girders.			
Flange			7	7				
Web			7	7				
Stiffeners			X	X				
Splice			X	X				
Weld			7	7				
Diaphragms/Cross Frame			7	7				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 2 Spans, Lengths(m): 19.8-19.8, A-Ident Number: A0306-01;A0306-02)				
Paint Condition		4	4	Paint peeling at bottom edges of all girders.-photo
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	No			
Bearings		3	3	AB on S1G1 loose. Bearings appear to be jammed, cracking at recent repair, possibly due to AB
Temperature (deg. C)	-22			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		4	4	Transverse cracking and staining visible.
Stains (Percent Area)	3			
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	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		3	3	Severely scaled wingwalls and parapets. 0.2x0.1x0.5 spall on NE parapet.-photo
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	5	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				Cracking at recent repair, possibly due to AB.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Stream channel not centered under bridge. It is under south span.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	Both headslopes have moved in slightly.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection		5	4	Riprap (sandbag) protection on South headslope. Riprap on North headslope. Minor 5.0m lg slough of toe of bank.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 8 anchor bolts and 8 rail bolts. Monitor cut posts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2012	Repair curbs.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace 2 curb cover plate bolts and 3 cover plate bolts.(Could not confirm if completed)					
RESET/ PAINT BEARINGS	2012	Replace all expansion bearings.					
REPAINT SUPERSTRUCTURE	2012	Repaint.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair scaling on abutments, wingwalls and parapets.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	56.7/55.2	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor crack on pier.		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	08-Sep-2013		Previous Inspection Date	21-May-2009			
Inspection Cycle (Default) (months)	21						
Comment							