

Bridge Inspection									
Bridge File Number	09309 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1987/1987				Lot No.	2			
Bridge or Town Name	SANGUDO				Inspector Name	Kris Bosters			
Located Over	PADDLE RIVER, 8.11.84.30, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	757:04 C1 8.180				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	20-Jul-2012			
Legal Land Location	NW SEC 30 TWP 57 RGE 6 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:53:41, 53:57:25				Data Entry Date	15-Aug-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12				Review Date	06-Aug-2012			
Clear Roadway/Skew	9 / 30 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	310 / 2011 (A)				Dept. Review Date	16-Aug-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	32								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS300						----> 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	All markers anchored to 1st guardrail post off bridge, not to standard. NE hazard marker loose.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	East & West r/w.				Gas				
Power	3 lines to west.				Municipal				
Others	WSE station SW.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Approach all 4 corners.				
Vertical Alignment			7	7					
Roadway Width (m)		10.000			Wide cracks and ravelling acp at approach slabs.-photo				
Approach Bump			7	4					
Guardrail (Y/N)		Yes			NW corner, rest have 19m of Type VI onto dikes. Minor creasing, still functional. Insufficient posts.				
Guardrail			6	4					
Length (m)		45.000			Type VI damaged at SW (2 rail sections and post).-photo				
Current Standard (Y/N)		No							
Termination Type		Turn Down							
Drainage			N	7					
Approach Road General Rating			7	7					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 16-19-16, A-Ident Number: A1071-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	20					
Now						
Wearing Surface			5	4	Random cracks. ACP separated 30mm from curbs and delaminated in gutter. 20 - 500x200 pot holes at paving lip on N side of birdge.-photo	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			7	5		
Deck Joints			7	5	Gaps filled with ACP & tar. Paving lips have broken edges.-photo	
Temperature (deg. C)		24				
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
50		North				
67		South				
Deck Drainage			N	4	1.5x1.5x1.0 (lxwxd) scour holes on headslope under S pier drains.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	5	Typical shrinkage cracks, 1 to 1.5m. Light scaling and grader marks.	
(Curb Type : Standard)						
Scaling (Percent Area)		3				
Bridge Rail			7	7		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			N	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	Minor sag in exterior flanges, no problem.	
Flange			7	7		
Web			8	8		
Stiffeners			8	8		
Splice			8	8		
Weld			8	8		
Diaphragms/Cross Frame			8	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 16-19-16, A-Ident Number: A1071-01)				
Paint Condition		8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	Pier 2 At N abutment
Temperature (deg. C)	24			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	5	Light scalling & rust stains at casting joints over piers. Narrow transverse cracks at 500mm o/c N side span 2.
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		X	X	
Paint/Coating		5	5	Yellow.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Gradual bend U/S & D/S.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		N	7	
HWM (m below Top of Curb)				HWM not visible. A few 50mm dia. trees.
Drift (Y/N)		Yes		
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	2012	Seal cracks in ACP.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Remove ACP from North abutment joint.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace broken approach rail and post at SW.					
OTHER ACTION	2012	Patch ACP at approaches and paving lips.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	68.6/64.0	Est. Repl. Yr	2052	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 Saly		Previous Assistant's Name				
Next Inspection Date	20-Oct-2015		Previous Inspection Date	04-Mar-2009			
Inspection Cycle (Default) (months)	39						
Comment							