

Bridge Inspection									
Bridge File Number	79128 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	SANGUDO				Inspector Name	Melanie Johnson			
Located Over	ROMEO CREEK, 8.11.84.30.16.2, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	18:06 C1 28.530				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	27-Aug-2011			
Legal Land Location	NW SEC 31 TWP 58 RGE 6 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:53:41, 54:03:37				Data Entry Date	19-Sep-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA10				Review Date	07-Sep-2011			
Clear Roadway/Skew	10.1 / 0 deg.				Dept. Reviewer Name	Brent Herrick			
AADT/Year	910 / 2010 (A)				Dept. Review Date	28-Sep-2011			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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	Not std. location and height.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	On curve with good sight distance.				
Vertical Alignment			7	7	(The approach has a history of settling. 29/June/2006) New ACP @ South approach.				
Roadway Width (m)	10.000								
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			5	5					
Length (m)	23.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 6-8-6, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	.
Last					
Now					
Wearing Surface			4	5	Chip seal over bridge.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			N	N	Covered with asphalt.
Bump (Y/N)		No			
Deck Drainage			4	5	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Hairline map cracks. Some localized rust stain on inside fascia. Plow damage.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	9	0	0	0	
Girders			5	5	Minor chips at corners of outside girders. NE & SE curb units have medium longitudinal crack along face of curb. Chip & rust @ SE. Vertical crack @ G1S1 North end. Connector pockets are rusting. Diagonal crack in G1SP3 less than 0.5m in length. Viewed center span from corners.
Last Complete Inspection Date		05-Nov-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 27)					
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									
(Extended Backwall Piles (Y/N) : Y)				CCA breastwalls recently installed.					
(Extended Backwall Piles Spacing(mm) : 1600)									
(Total Number of Caps/Corbels : 3:3)				(Rot in West end of North cap, see coring report of Jan4/99) Cracking @ West end of North cap.					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last									
Now									
Bearing Seats/Caps/Corbels							4	4	
(Type : TREATED TIMBER)									
(Depth(mm) : 350)									
(Width(mm) : 300)									
Backwalls/Breastwalls							7	7	
Greatest Height (m)		2.00							
Wingwalls				4	4	SW wing top plank broken, wing pile tin top damaged SW, strands broken. Tin top @ NE damaged. SE wing pile tin top missing. Wingwall leaning and top two planks @ SW loose.-photo & tin top damaged.			
(Total Number of Bearing Piles : 10:10)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Piles				5	5				
Paint/Coating				X	X				
Abutment Stability				5	5				
Scour/Erosion				5	4	Minor erosion @ toe of headslopes ~ 0.5m up slope.			
Piers/Bents									
(Type : PIER-COLUMN)									
(Total Number of Caps/Corbels : 1:1)				The south pier has 4 piles with steel pile extensions. P9 600mm extensions.					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Bearing Seats/Caps/Corbels				8	8				
(Type : GALVANIZED STEEL)									
(Depth(mm) : 300)									
(Width(mm) : 600)									
(Total Number of Bearing Piles : 10:10)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Pier Shaft/Piles				5	5				
Greatest Height (m)		4.00							
Bracing/Struts/Sheathing				6	6				
Nose Plate				X	X	P3 South pier banded.			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
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)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	4	Erosion @ toes of headslopes.
(Type : NONE)				
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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2011	Replace wing pile tin tops - 3.					
OTHER ACTION	2011	Renail SW wingwall.					
OTHER ACTION	2011	Reset hazard markers.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	61.7/61.7	Est. Repl. Yr	2024	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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	27-May-2013		Previous Inspection Date	05-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							