

Bridge Inspection											
Bridge File Number	09504 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1975/1975				Lot No.	2					
Bridge or Town Name	SEXSMITH				Inspector Name	Russel Vanderschaaf					
Located Over	GRANDE PRAIRIE CREEK, 8.10.58.18.2.5, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	672:04 C1 31.904				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	11-May-2010					
Legal Land Location	SE SEC 17 TWP 73 RGE 6 W6M				Data Entry By	Theresa Lacusta					
Longitude, Latitude	-118:52:56, 55:18:58				Data Entry Date	10-Jun-2010					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer					
Contract Main. Area	CMA05				Review Date	07-Jun-2010					
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Steve Pasquan					
AADT/Year	1,210 / 2009 (A)				Dept. Review Date	19-Aug-2010					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	5										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> 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									

Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	S. R/W				Gas					
Power	N. R/W - 1 wire				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Farm residence entrances 100m E. & W. of bridge. At bottom of sag. No passing both directions.				
Vertical Alignment			7	7					
Roadway Width (m)		9.100		Both approaches patched with ACP					
Approach Bump		6	6						
Guardrail (Y/N)		Yes							
Guardrail		N	6						
Length (m)		11.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN ENDS							
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-9.1-9.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	30				
Now					
Wearing Surface			7	6	Cracking over abutments and piers.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		Yes			
Deck Drainage			7	7	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			N	6	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	4	3 missing bolts-photo 1 post on South side has been knocked over-photo.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	3	
(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				2	
Now	0	0	0	2	
Girders			3	3	S1,G8 has a wide crack outside the AZ. Approx 032m L S1,G3 has narrow cracks outside the AZ & 2 popouts. S2,G1 has spalling in the AZ with rusted rebar exposed-photo. S3 G7 has medium long CR on northside under NW connector pocket-photo. Rust staining at connector pocket locations of approx. 1/2 of the girders.
Last Complete Inspection Date		11-May-2010			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 24)					
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					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1200)					
NW wing pile tin top -photo					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels			8	8	
(Type : STEEL)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
Backwalls/Breastwalls			8	8	
Greatest Height (m)		1.30			
Wingwalls			N	N	
(Total Number of Bearing Piles : 9:9)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Piles			8	8	
Paint/Coating			8	8	
Abutment Stability			8	8	
Scour/Erosion			8	4	
3 cracks in gravel on embankment parallel to East abutment.-photo					
Piers/Bents					
(Type : PIER-COLUMN)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Bearing Seats/Caps/Corbels			8	8	
(Type : STEEL)					
(Depth(mm) : 300)					
(Width(mm) : 300)					
(Total Number of Bearing Piles : 7:7)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					
Pier Shaft/Piles			8	8	
Greatest Height (m)		5.50			
Bracing/Struts/Sheathing			8	8	
Nose Plate			8	8	
Paint/Coating			8	8	
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Beaver dam 10m u/s of N side. 2m W x 4m L x 1.2m D scour NW bank.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		6	3	Scour 12mLx7mWx3mD on NE bank due to beaver dam.
HWM (m below Top of Curb)				No HWM visible.
Drift (Y/N)	No			
Slope Protection (Type :)		7	3	
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2010	Repair post and replace missing bolts.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2010	Repair scour in NE and NW corners with 210m3 of clay backfill and 55m3 of class 1 riprap.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2010	Repair missing tin top.					
OTHER ACTION	2010	Repair S2,G1,S3,G7					
OTHER ACTION	2010	Remove beaverdam.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	65.7/59.2	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Bob Dary at 780-567-0009 N land owner has concern with NE scour.		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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	11-Aug-2013		Previous Inspection Date	13-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							