

Bridge Inspection									
Bridge File Number	08641 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1967/1967				Lot No.	3			
Bridge or Town Name	GIBBONS				Inspector Name	Arnold Assenheimer			
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	643:02 C1 2.590				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	19-May-2011			
Legal Land Location	SE SEC 13 TWP 56 RGE 23 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:16:58, 53:49:58				Data Entry Date	13-Jun-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA09				Review Date	07-Jun-2011			
Clear Roadway/Skew	9.1 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,720 / 2010 (A)				Dept. Review Date	14-Jun-2011			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 43 GIRDER	Semi	CS2 51 GIRDER	Train	CS3 66 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)	Yes								
Remarks									
Other Sign Types	"Bump" markers @ NE & SW corners.								
Utilities (Located at)									
Utility Attachments									
Telephone	South r/w & n R/W				Gas				
Power	2 wires r/w.				Municipal				
Others	WCS @ SE corner.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Sag, crest curve, limited sight distance to west. Bridge in on a grade. No passing both directions.				
Vertical Alignment			6	6					
Roadway Width (m)	8.400				"Bump" markers installed @ NE & SW indicating bump at both approaches.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Insufficient length. 60.8m @ NE & SW; 38.0m @ SE & NW. Extra posts @ corners missing.-photo				
Guardrail			4	6					
Length (m)	38.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	3	Drainage may be contributing to erosion gully forming @ NE. No drain trough. Void 0.2x0.3x0.3 @ NW-getting under approach slab.-photo				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-25.9-12.2, A-Ident Number:)					
Special Features					
Special Feature		7	7	Installed on span1 and 3 only	
(Type : EXT LATER POST TENS)					
Special Feature			7		
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface		4	4	Local areas of chipseal worn bare near pier joints. (Random narrow to medium cracks.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		4	4	Evidence that East abutment joint may be leaking due to staining of seat below - photo. Joint may have been replaced recently.	
Temperature (deg. C)		20			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
70		W. abut.			
50		W. pier			
70		E. pier			
75		E. abut.			
Deck Drainage		4	4	East abutment stained, may be from leaky joint.	
Drains Clogged (Y/N)					
Curbs/Median		5	5	Light scaling. Few spalls on face where insufficient cover on rebar.	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail		4	4	Double layer with improper splice, missing lap connection bolts at posts, typical @ all - photo.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		4	3	Small tear in top of one post North side, S3. Post @ NE corner cracked along base plate.-photo	
(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					
Girders		5	5	Most girders have up to 200mm longitudinal cracks propagating from shoe plates.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 18)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-25.9-12.2, A-Ident Number:)				
Diaphragms/Cross Frame		6	5	Popout from jack hammering at joints.
Bearings		5	6	
Temperature (deg. C)	20			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	5	G1 S3 has spall with exposed rebar 100mm dia.
Stains (Percent Area)	0			
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				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		4	4	Erosion gully 300mmx200mmx8m
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	6	Narrow cracks extending 200mm from piles-West pier.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		8	8	
Nose Plate		8	8	
Paint/Coating		4	4	15% paint failure
(Colour Description : RED)				
(Colour Code : 509-102)				
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		7	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : CONCRETE)		4	4	Lower section @ both headslopes. Insufficient protection where erosion gully developing @ NE corner. Concrete sandbags.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Replace missing splice bolts (~235). Replace post at NE corner.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2011	Patch spalls & seal curb.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Check A2 joint if leaking, repair as necessary.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2011	Repair NE corner erosion.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Fill void at NW and patch ACP.					
OTHER ACTION	2011	Upgrade approach guardrail to meet standard.					
OTHER ACTION	2011	Consider installing concrete drain troughs @ NE & SE corners.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	65.8/63.0	Est. Repl. Yr	2029	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	19-Aug-2014		Previous Inspection Date	27-Mar-2008			
Inspection Cycle (Default) (months)	39						

Comment	
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