

Bridge Inspection									
Bridge File Number	02301 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1963/1963				Lot No.	2			
Bridge or Town Name	GIBBONS				Inspector Name	Arnold Assenheimer			
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	825:02 C1 9.122				Assistant Name	Wade Nanninga			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	19-May-2011			
Legal Land Location	NW SEC 28 TWP 55 RGE 22 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:13:24, 53:47:14				Data Entry Date	08-Jun-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA09				Review Date	02-Jun-2011			
Clear Roadway/Skew	8 / -25 deg. (LHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,500 / 2010 (A)				Dept. Review Date	14-Jun-2011			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	8								
Allowable Load (t):	Single	CS1 49 GIRDER		Semi	CS2 66 GIRDER		Train	CS3 94 GIRDER	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
								----> 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 to standard height/location -SW knocked over.								
Other Sign Types	85km/hr								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wires 20m east of c/l.				Municipal		Waterline in SW ditch, above ground.		
Others					Problem (Y/N)		No		
Remarks	Water gauge at SW corner.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm entrances to North.				
Vertical Alignment			6	6	Limited sight distance in sag curve.				
Roadway Width (m)			10.000		Approaches lower than bridge, could improve grade. Approach settled causing slight bump, typical both ends.				
Approach Bump			5	5	Erosion of ditches repaired with riprap.				
Guardrail (Y/N)			Yes		Some minor tears & dents, functioning. Post spacing not to standard.				
Guardrail			4	4					
Length (m)			34.200						
Current Standard (Y/N)			No						
Termination Type			Turned Down						
Drainage			5	5					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 17.7-17.7-17.7, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10				
Now	0.0	0.0	0.0	10.0	
Wearing Surface			6	3	UNRAVELLING ALONG CURBS EXPOSING DECK TOP.-PHOTO
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	6	
Deck Joints			3	3	Leaking @ both abutments & both piers - photos.
Temperature (deg. C)		20			
(Expansion Type : SLIDING PLATES)					
(Fixed Type : WATER STOP)					
Gap Size (mm)		Gap Location			
75		S. pier			
75		N. pier			
Deck Drainage			4	4	Abutment bearings rusty and pier shaft spalls due to leaky joints. Drain trough @ SW cracked.
Drains Clogged (Y/N)		No			
Curbs/Median			N	3	Holes in top of curb exposing curb void at NE & SE.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	4	SE panel accident damage - photo. 2 posts @ SW have spalling around post anchorage. 4 loose AB nuts along E curb.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			6	3	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	5				
Now					
Girders			5	4	S2 girders viewed from banks due to unsafe ice. Some showing on other spans, but only on east side of centre. Est 25 degree angle on crack. No change. Spalling @ east side, south pier joint exterior. Peeling on exterior curb units. Cracks extending from masonry plates at girder ends. S#G1 wide vertical crack within 50mm from end.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 15)					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 17.7-17.7-17.7, A-Ident Number:)					
Diaphragms/Cross Frame		8	8		
Bearings		5	4	Some anchor bolts bent. South pier movement. A/B bent towards South abutment. 2 anchor bolt nuts missing on South abutment.	
Temperature (deg. C)	20				
(Expansion Type : SLIDING PLATE)					
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	No				
Deck Underside		8	5	North end 10m longitudinal type crack 1st & 2nd girders NE corner, rust spots with eff. staining.	
Stains (Percent Area)	0				
Span Alignment Problems					
Vertical (Y/N)	No			Bridge rotated in direction of skew.	
Horizontal (Y/N)	Yes				
Superstructure General Rating		5	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		7	7		
Wingwalls		7	7		
Piles		N	N		
Paint/Coating		5	6		
Abutment Stability		5	6		
Scour/Erosion		N	6		
Piers/Bents					
(Type : PIER-SOLID)					
Bearing Seats/Caps		6	6	Wide crack North pier on both sides. 2 cracks in South pier .45mm wide on both sides. Piers are stained from leaking joints. Couple spalls on South pier due to lack of cover on rebar - photo. Stained due to leaking deck joints, drains. Bearing bolts are bent.	
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0)					
Pier Shaft/Piles		4	4		
Bracing/Struts/Sheathing		X	X		
Nose Plate		7	7		
Paint/Coating		5	5		
(Colour Description :)					
(Colour Code :)					
Pier Stability		5	5		
Scour		6	N		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
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		8	8	Slope concrete covered with silt, South side only.
Bank Stability		5	4	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : CONCRETE; NATURAL)				
Guidebank/Spurs		6	X	
Adequacy of Opening		8	8	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011						
RESET/ PAINT BEARINGS	2011	Recondition.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Patch hole & spalled east curb.					
OTHER ACTION	2011	Upgrade approach guardrail to meet standard.					
OTHER ACTION	2011	Install hazard markers to meet standard height.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	57.2/52.7	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor South pier movement or broken bolts. 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	17-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							