

Bridge Inspection									
Bridge File Number	00228 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1978/1978				Lot No.	1			
Bridge or Town Name	ONOWAY				Inspector Name	Melanie Johnson			
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	37:02 C1 6.768				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	07-Nov-2011			
Legal Land Location	SW SEC 6 TWP 55 RGE 1 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:08:55, 53:43:00				Data Entry Date	19-Nov-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA09				Review Date	13-Nov-2011			
Clear Roadway/Skew	10.1 / 0 deg.				Dept. Reviewer Name	Brent Herrick			
AADT/Year	2,530 / 2010 (A)				Dept. Review Date	15-Dec-2011			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	6								
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	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)	No								
Remarks	Not req'd								
Other Sign Types	Curve, No Passing.								

Utilities (Located at)									
Utility Attachments									
Telephone	E & W along South crosses RR 20				Gas	Pipeline -SE corner			
Power	3/4 o/h along North				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		6	6	"T" intersection to RR 20, 20 m west. Bridge is at bottom of sag curve. Horizontal curves both approaches. Limited sight distances. File tag on SW abutment cap.					
Vertical Alignment		6	6						
Roadway Width (m)		8.000							
Approach Bump		7	7	Not enough posts in first section, insufficient length. Type VI turndown SW corner					
Guardrail (Y/N)		Yes							
Guardrail		7	7						
Length (m)		30.400							
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 : SM, 3 Spans, Lengths(m): 10-11-10, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	5	
Now	0.0	0.0	0.0	5.0	
Wearing Surface			3	3	Longitudinal cracks along girders. Lines have been patched. Random cracking & asphalt deterioration. Potholes forming over piers, along girder lines and at abutments.- photo
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			5	5	
Deck Joints			4	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	Bridge is on a grade. Erosion on West headslope. No deck drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Curbs have been sealed. Spalls along top of North curb due to insufficient concrete cover.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
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			X	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	3	
Now	9	0	0	3	
Girders			3	3	Leakage between the units. Underside of girders have extensive staining from rusting connector pockets. Typical hairline diagonal cracks less than 0.5m long. G3S1 @ West abutment has spall with exposed rebar in bottom due to low cover. G9S3 @ East pier has minor construction spall. G1S1 has 870 mm rust stained crack @ east end.-photo Spall S3G2600mmx150mm-concrete is delam over 700mmx600mm - photo, delam occuring 600x400 on G1 at same location. Span 2 inspected from banks. G9S3 has narrow ck on girder underside with rust staining.-Ck is ~7m long ans ends 1.5m shy of East abut. and East pier.
Last Complete Inspection Date		09-Jun-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 27)					
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) : 1400)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 310)						
Edge of cap at NW end is splintered & cracked. No rot.						
Recently cored.-09-Jun-2011						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		1.70				
Wingwalls				4	4	NE wingwall charred by fire. 1 pile wingwall. WW tin cover damaged at SW, NE.
(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				7	7	
Scour/Erosion				4	4	Erosion gullies on East & West headslope.
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					New steel caps & capitals.	
Now					Girders not bearing evenly on East pier north side 125/225.	
Bearing Seats/Caps/Corbels				8	8	
(Type : 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				5	5	
Nose Plate				5	5	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	
Scour		6	6	
Debris (Y/N)	Yes			At East and West headslope. Old piles.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Stream enters bridge opening from 45 deg to NW.
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible. Old beaverdam 20m u/s.
Drift (Y/N)	Yes			
Slope Protection (Type : NONE; NONE)		4	4	Erosion gullies at East and West headslopes from leakage through deck.
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(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							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK	2012	Patch ACP.					
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							
OTHER ACTION	2012	Assess to determine best course of action for bridge deck and girders during hwy 37 upgrading.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	51.1/51.1	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls and cracks in girders.		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	Eric Carcoux		Previous Assistant's Name	Brian Cote			
Next Inspection Date	07-Aug-2013		Previous Inspection Date	09-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							