

Bridge Inspection										
Bridge File Number	77054 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1986/1986					Lot No.	2			
Bridge or Town Name	HINTON					Inspector Name	Shane Hall			
Located Over	SWITZER DR					Inspector Class	BR CLS A			
Located On	16:02 L1 27.015					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	06-Jul-2012			
Legal Land Location	SE SEC 14 TWP 51 RGE 25 W5M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:34:32, 53:24:09					Data Entry Date	21-Aug-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13					Review Date	20-Aug-2012			
Clear Roadway/Skew	10.3 / -9 deg. (LHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	8,730 / 2011 (A)					Dept. Review Date	22-Aug-2012			
Road Classification	RAD-412.4-120					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300								----> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: SWITZER DR 8.9m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	7.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	7.4	In Advance (Y/N)	Yes
Remarks												
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)			At Bridge (Y/N)				
Posted:	Lane	WB	At Junction (Y/N)		No	In Advance (Y/N)		No	At Bridge (Y/N)			
Remarks			Not required.									
Hazard Marker At Bridge (Y/N)		Yes										
Remarks		At NE & SE corners only.										
Other Sign Types		Information										

Utilities (Located at)				
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE			
Telephone	North r/w.		Gas	
Power			Municipal	
Others	Lighting on pier/street lights on grade separation.		Problem (Y/N) No	
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	On horizontal super elevated curve on a downward grade to West.
Vertical Alignment		7	7	
Roadway Width (m)		10.800		
Approach Bump		5	5	Not thrie beam transition. +99mm @ NE & NW; 30m @ SE. 1st splice of NE guardrail missing 4 bolts - photo. 1 loose connection to bridge @ NE. 1 broken, 1 missing post @ NW corner.-photo
Guardrail (Y/N)		Yes		
Guardrail		4	3	
Length (m)		30.000		
Current Standard (Y/N)		No		
Termination Type		Turned Down		
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : DBT, 2 Spans, Lengths(m): 34-34, 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			7	7		
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 90)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			5	5	Cover plate on N curb @ AZ bent up 30mm. Cover plate on S curb @ A1 bent up 20mm.	
Temperature (deg. C)		22				
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
80		E. abut				
75		W. abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	5	80% of form tie plugs on South curb are popping out.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Several posts have insufficient threads.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4	4			
(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	Typical H.L. cracking @ end blocks of DBT.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 16)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 34-34, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	
Temperature (deg. C)	21			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
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		7	7	
Wingwalls		7	5	SW wingwall has map cracking.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				2 columns.
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	8	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		5	5	Lights mounted on pier column guardrail in median protecting pier column. ACP sidewalk on NB separated by Lo rise concrete curb.
Type	Lighting/guardrails			
Slope Protection (Type : CONCRETE; CONCRETE)		5	5	West slope protection settled 75mm, East 50mm. .
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		5	5	

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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2013	Install missing splice bolts @ 1st splice of NE approach guardrail.					
OTHER ACTION	2013	Replace missing/split GR posts.					
Structural Condition Rating (Last/Now) (%)	66.7/72.2	Sufficiency Rating (Last/Now) (%)	57.6/59.6	Est. Repl. Yr	2045	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	06-Apr-2014		Previous Inspection Date	15-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							