

Bridge Inspection										
Bridge File Number	85091 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	2011/2011					Lot No.	2			
Bridge or Town Name	216 / 127 Street Interchange					Inspector Name	Randy Bredo			
Located Over	216:08 R1 10.821;216:08 L1 10.867					Inspector Class	BR CLS A			
Located On	LOCAL ROAD					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	17-Apr-2012			
Legal Land Location	NE SEC 1 TWP 54 RGE 25 W4M					Data Entry By	Jill Potts			
Longitude, Latitude	-113:32:42, 53:38:19					Data Entry Date	03-May-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Dave Lam			
Contract Main. Area	UNDEFINED CMA					Review Date	28-Apr-2012			
Clear Roadway/Skew	33.1 /					Dept. Reviewer Name	Brent Herrick			
AADT/Year						Dept. Review Date	12-Jun-2012			
Road Classification	RFD-414.1-110					Follow-Up By				
Detour Length (km)										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	CL800									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N) Yes												
Posted:	Lane	EB	On Bridge (m)	5.6	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.5	In Advance (Y/N)	No
Remarks	Advance VC signs required.											
Required Load Posting (t)												
Posted Loading (t)												
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) No												
Remarks	Not required.											
Other Sign Types												

Utilities (Located at)									
Utility Attachments									
Telephone						Gas			
Power						Municipal			
Others	Light standards.					Problem (Y/N)	Yes		
Remarks	Light standard base not grouted.								

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment			7	
Vertical Alignment			7	
Roadway Width (m)	33.100			
Approach Bump			7	
Guardrail (Y/N)	Yes			30.5m on exit.
Guardrail			7	
Length (m)	72.000			
Current Standard (Y/N)	Yes			
Termination Type	Attenuation			
Drainage			3	Final grading required each corner.
<b>Approach Road General Rating</b>			<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>NU, 2 Spans, Lengths(m): 52.87-52.87, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface			8	H2 with waterproofing system.	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>80</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top			N		
Deck Rideability			8		
Deck Joints			8		
Temperature (deg. C)		2			
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
72		A1 - armoured gland - exp.			
67		A2 - armoured gland - exp.			
Deck Drainage			8	No drains.	
Drains Clogged (Y/N)		No			
Curbs/Median			3	Occasional hairline vertical cracks East barriers. West side only - no rail. 4 failed caulking locations.	
(Curb Type : <b>SINGLE SLOPE CONCRETE BARRIER</b> )					
Scaling (Percent Area)		0			
Bridge Rail			8	East side only.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			8		
(Type : <b>GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			8		
(Type : <b>GALVANIZED</b> )					
Sidewalk			7	10% light scaling on deck.	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>					
Girders			4	High load damage S2G12 approx 500mm long x 40mm deep.	
Cracking (Y/N)		No			
Spalling (Percent Area)		1			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>NU, 2 Spans, Lengths(m): 52.87-52.87, A-Ident Number: )</b>				
Diaphragms/Cross Frame			8	
Bearings			8	Both abutments have bearings. Pier is integral.
Temperature (deg. C)	2			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>			<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps			9	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls			9	
Wingwalls			8	Wingwalls typically have 4 stress cracks with efflorescence.
Piles			N	
Paint/Coating			7	
Abutment Stability			9	
Scour/Erosion			X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				5 columns.
Bearing Seats/Caps			9	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>26</b> )				Buried.
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			8	Tan.
(Colour Description : )				
(Colour Code : )				
Pier Stability			9	
Scour			X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>			<b>9</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment			7	
Traffic Safety Features			8	
Type	Lighting			
Slope Protection			8	SE slope protection slid 35mm.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability			7	
Drainage			7	
<b>Grade Separation General Rating</b>			<b>7</b>	

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	2012	Finish setting handrail and grout posts.					
OTHER ACTION	2012	Patch high load damage.					
OTHER ACTION	2012	Finish grading at all 4 corners.					
OTHER ACTION	2012	Install advance vertical clearance signs.					
OTHER ACTION	2012	Repair 4 failed curb caulking locations.					
OTHER ACTION	2012	Grout bases of light standards.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>/66.1</b>	Est. Repl. Yr	2087	Maint. Req'd. (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			Previous Assistant's Name				
Next Inspection Date	17-Jan-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							