

Bridge Inspection										
Bridge File Number	85095 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	2011/2011					Lot No.	1			
Bridge or Town Name	216 / 66 Street NE Interchange					Inspector Name	Randy Bredo			
Located Over	216:02 R1 3.441;216:02 L1 3.450					Inspector Class	BR CLS A			
Located On	LOCAL ROAD					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	16-Apr-2012			
Legal Land Location	SW SEC 11 TWP 54 RGE 24 W4M					Data Entry By	Jill Potts			
Longitude, Latitude	-113:26:22, 53:38:45					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	36 /					Dept. Reviewer Name	Brent Herrick			
AADT/Year						Dept. Review Date	12-Jun-2012			
Road Classification						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:	CL800									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)						Yes						
Posted:	Lane	EB	On Bridge (m)	6.1	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	5.8	In Advance (Y/N)	No
Remarks		EB ramp - 5.7m, WB ramp - 5.7m. Advance VC signs required.										
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)			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 standards not yet grouted.							

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment			7	Very sharp bump. Needs another 100mm lift on approaches.
Vertical Alignment			7	
Roadway Width (m)	36.000			
Approach Bump			3	
Guardrail (Y/N)	Yes			Guardrail was torqued not allowing for expansion/contraction putting stress on parapet transition bolts at SE and SW with 2 missing bolts and 3 loose.
Guardrail			3	
Length (m)	23.000			
Current Standard (Y/N)	Yes			
Termination Type	Attenuation			
Drainage			3	Final grading incomplete at corners.
Approach Road General Rating			7	

Superstructure							
Bridge Component				Last	Now	Explanation of Condition	
(Primary Span : WG, 2 Spans, Lengths(m): 62-62, 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					8	H2 with waterproofing system.	
(Material Type : ACP)							
(Thickness(mm) : 80)							
Deck Top					N		
Deck Rideability					3	Paving incomplete on approaches leaving a very sharp bump.	
Deck Joints					8		
Temperature (deg. C)	4						
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))							
(Fixed Type :)							
Gap Size (mm)		Gap Location					
80		A1 - gland wabo - exp.					
71		A2 - gland wabo - exp.					
Deck Drainage					8	Weep pipes will not last and already failing. No deck drains.	
Drains Clogged (Y/N)		No					
Curbs/Median					7	East side only.	
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)							
Scaling (Percent Area)		0					
Bridge Rail					3	Sidewalk rail still needs setting and grouting West rail & sidewalk rail. 40% of splice bolts loose. Others suspect torque is incomplete.	
(Type : GALVANIZED STEEL BRIDGE TUBE)							
Bridge Rail Posts					3		
(Type : GALVANIZED POST STEEL)							
Bridge Rail/Posts Coating					8		
(Type : GALVANIZED)							
Sidewalk					3	Sidewalk fill at ends is incomplete and uncompacted.	
Girder/Beam							
Cover Plate					X		
Flange					9		
Web					9		
Stiffeners					9		
Splice					9		
Weld					N		
Diaphragms/Cross Frame					9		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 62-62, A-Ident Number:)				
Paint Condition			8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings			8	
Temperature (deg. C)	4			
(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			9	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps			8	
(Type : CONCRETE)				
Backwalls/Breastwalls			8	Stress cracking developing at abutment seats.
Wingwalls			7	
Piles			N	
Paint/Coating			N	Coating has to be applied yet.
Abutment Stability			8	
Scour/Erosion			X	
Piers/Bents				
(Type : PIER-COLUMN)				6 concrete columns.
Bearing Seats/Caps			9	Buried.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6)				
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			N	No coating applied yet.
(Colour Description :)				
(Colour Code :)				
Pier Stability			9	
Scour			X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			7	
Traffic Safety Features			9	
Type	Lighting			
Slope Protection			8	
(Type : CONCRETE; CONCRETE)				
Bank Stability			9	
Drainage			7	
Grade Separation General Rating			7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Torque all rail bolts. Repair approach rail transition bolts and back off guardrail bolts to allow slippage.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	The weep tubes should be replaced with drains for winter.					
OTHER ACTION	2012	Complete grading, backfilling and concrete sidewalk and corners.					
OTHER ACTION	2012	Install advance VC signs.					
OTHER ACTION	2012	Grout rail post bases & light pole bases.					
OTHER ACTION	2012	More asphalt required on abutments.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/75.0	Est. Repl. Yr	2087	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		Previous Assistant's Name	
Next Inspection Date	16-Jan-2014	Previous Inspection Date	
Inspection Cycle (Default) (months)	21		
Comment			