

Bridge Inspection									
Bridge File Number	85097 S-2 Bridge				Form Type	SG			
Year Built/Year Supstr	2011/2011				Lot No.	2			
Bridge or Town Name	216 / Manning Drive Interchange				Inspector Name	Randy Bredo			
Located Over	216:02 L1 6.691				Inspector Class	BR CLS A			
Located On	15:03 L1 0.690				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Apr-2012			
Legal Land Location	SE SEC 1 TWP 54 RGE 24 W4M				Data Entry By	Jill Potts			
Longitude, Latitude	-113:23:40, 53:38:05				Data Entry Date	03-May-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Dave Lam			
Contract Main. Area	UNDEFINED CMA				Review Date	22-Apr-2012			
Clear Roadway/Skew	12.9 /				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)									
Posted:	Lane	EB	On Bridge (m)	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	In Advance (Y/N)
Remarks	Road is not open. VC signs required when road is opened to traffic.								
Required Load Posting (t)		Single		Semi		Truck Train			
Posted Loading (t)		Single		Semi		Truck Train			
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	NB	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 grouted.								

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment				7	Exit 30m long.				
Vertical Alignment				7					
Roadway Width (m)		14.000							
Approach Bump				8					
Guardrail (Y/N)		Yes							
Guardrail				8					
Length (m)		86.000							
Current Standard (Y/N)		Yes							
Termination Type		Attenuation							
Drainage				4	Drainage working well but settlement in corners.				
<b>Approach Road General Rating</b>				<b>7</b>					

Superstructure							
Bridge Component				Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 2 Spans, Lengths(m): 41.207-60.808, A-Ident Number: )</b>							
<b>Special Features</b>							
Special Feature					8	MSE Wall. Both abutments. Slight waviness.	
(Type : )							
Special Feature					X		
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>							
<b>Now</b>							
Wearing Surface					8		
(Material Type : <b>ACP</b> )							
(Thickness(mm) : <b>80</b> )							
Deck Top					N		
Deck Rideability					8		
Deck Joints					8	Integral abutments.	
Temperature (deg. C)	4						
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )							
(Fixed Type : )							
Gap Size (mm)		Gap Location					
91		Abutment 1 - gland - exp.					
97		Abutment 2 - gland - exp.					
Deck Drainage							
Drains Clogged (Y/N)	No				8	No drains.	
Curbs/Median							
(Curb Type : <b>SINGLE SLOPE CONCRETE BARRIER</b> )					8	Still working on curbs and fascia. Rubbed finish.	
Scaling (Percent Area)	0						
Bridge Rail							
(Type : )					X		
Bridge Rail Posts					X		
(Type : )							
Bridge Rail/Posts Coating					X		
(Type : )							
Sidewalk					X		
<b>Girder/Beam</b>							
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 : <b>WG, 2 Spans, Lengths(m): 41.207-60.808, A-Ident Number: )</b>				
Paint Condition			9	Weathering steel. Rust stains lower flange at A2 from fill water. It may stop.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings			9	Abutments are integral - no bearings.
Temperature (deg. C)	4			
(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			9	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>			<b>9</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps			8	Narrow stress cracks from bottom flange to pour line (only 1 side of all 4 girders).
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls			8	
Wingwalls			8	
Piles			N	
Paint/Coating			8	
Abutment Stability			8	
Scour/Erosion			X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				2 concrete columns.
Bearing Seats/Caps			9	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>24</b> )				Buried.
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			9	Tan.
(Colour Description : )				
(Colour Code : )				
Pier Stability			9	
Scour			X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>			<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment			7	
Traffic Safety Features			4	
Type	Lighting			
Slope Protection			5	South abutment galvanized strip water prevention attachments are stressed from concrete heaving.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability			9	
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							
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	Complete concrete painting/finishing.					
OTHER ACTION	2012	Clean/remove staining on barrier exterior.					
OTHER ACTION	2012	Grout light standard bases.					
OTHER ACTION	2012	Finish grading of embankments.					
OTHER ACTION	2012	Is sealer required between girders? Improve on sealer detailing.					
OTHER ACTION	2012	Repair flashing where heaved at top of slope protection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>/94.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>/75.5</b>	Est. Repl. Yr	2087	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor stress cracking under girders at abutments. Monitor seepage onto girders at abutment 1.		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			