

Bridge Inspection									
Bridge File Number	76848 W-2 Bridge					Form Type	SG		
Year Built/Year Supstr	2006/2006					Lot No.	4		
Bridge or Town Name	AIRDRIE					Inspector Name	Garry Roberts		
Located Over	2:18 R1 9.757;2:18 L1 9.760					Inspector Class	BR CLS A		
Located On	567:05 L1 3.310					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	13-Sep-2011		
Legal Land Location	SE SEC 15 TWP 27 RGE 29 W4M					Data Entry By	Alyssa Boynton		
Longitude, Latitude	-114:00:04, 51:18:00					Data Entry Date	21-Oct-2011		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Ash Morjaria		
Contract Main. Area	CMA29					Review Date	10-Oct-2011		
Clear Roadway/Skew						Dept. Reviewer Name	Tim Davies		
AADT/Year	10,000 / 2008 (E)					Dept. Review Date	28-Oct-2011		
Road Classification						Follow-Up By			
Detour Length (km)									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> Primary Span		

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.3m, 2 R1 5.3m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.4	In Advance (Y/N)	Yes
Remarks	signed 5.3m on E/B bridge and advance											
Required Load Posting (t)	Single			Semi			Truck Train					
Posted Loading (t)	Single			Semi			Truck Train					
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Remarks	Not req.											

Hazard Marker At Bridge (Y/N)	No											
Remarks	Not req.											
Other Sign Types	Curve, route											

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South				Gas				
Power	Underside/Deck lights				Municipal				
Others	Light Standards				Problem (Y/N)		No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Narrows to 9.0m
Vertical Alignment		6	6	
Roadway Width (m)	13.000			Wrong lap at NE 2 bolts missing at NE steel post to block
Approach Bump		8	7	
Guardrail (Y/N)	Yes			
Guardrail		4	4	Bullnose at both end medians
Length (m)	80.000			
Current Standard (Y/N)	Yes			
Termination Type	turndown			
Drainage		5	6	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 2 Spans, Lengths(m): 46-50, 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>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			8	7	ACP pver waterproofing membrane Longitudinal and transverse cracks - isolated.	
(Material Type : <b>MIX TYPE 1 ACP</b> )						
(Thickness(mm) : <b>80</b> )						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			8	8		
Temperature (deg. C)		10				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
75		East Abut				
75		West Abut				
Deck Drainage			5	5	Ponding at NE to shoulder line	
Drains Clogged (Y/N)		No				
Curbs/Median			8	7	Cracked curb underside extending past vertical control joints	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			5	8		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			8	8		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			X	X		
Flange			9	8		
Web			9	8		
Stiffeners			9	8		
Splice			9	8		
Weld			9	8		
Diaphragms/Cross Frame			9	8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 2 Spans, Lengths(m): 46-50, A-Ident Number: )</b>				
Paint Condition		X	X	Weathering steel
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	10			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Transverse narrow cracks with efflorescence
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		9	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		9	8	MSE wall panels at East abut.
Wingwalls		9	8	
Piles		N	N	
Paint/Coating		8	8	
Abutment Stability		9	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		9	8	
(Type : )				
(Total Number of Bearing Piles : <b>0</b> )				Massive pier Vertical crack full height at West side
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		9	8	Pigmented sealer
(Colour Description : )				
(Colour Code : )				
Pier Stability		9	8	
Scour		X	X	
Debris (Y/N)	No			

<b>Substructure</b>				
<b>Bridge Component</b>		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Substructure General Rating</b>		<b>9</b>	<b>8</b>	
<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		8	8	At center median
Type	Bullnose Thriebeam			
Slope Protection		8	8	Galv. deflector plates at West abut.
(Type : <b>CONCRETE</b> )				
Bank Stability		8	8	MSE Retaining Wall @ East
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>52.3/49.9</b>	Est. Repl. Yr	2068	Maint. Req. (Y/N)	No
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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	13-Jun-2013		Previous Inspection Date	29-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							