

Bridge Inspection									
Bridge File Number	78222 -1 Bridge					Form Type	PSR		
Year Built/Year Supstr	1977/1977					Lot No.	2		
Bridge or Town Name	AIRDRIE					Inspector Name	Garry Roberts		
Located Over	2:18 R1 7.841;2:18 L1 7.844					Inspector Class	BR CLS A		
Located On	TRAIL-PED, ON 50000 PS					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	13-Sep-2011		
Legal Land Location	NE SEC 3 TWP 27 RGE 29 W4M					Data Entry By	Alyssa Boynton		
Longitude, Latitude	-114:00:05, 51:16:59					Data Entry Date	21-Oct-2011		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Ash Morjaria		
Contract Main. Area	CMA29					Review Date	09-Oct-2011		
Clear Roadway/Skew	2.1 /					Dept. Reviewer Name	Tim Davies		
AADT/Year						Dept. Review Date	28-Oct-2011		
Road Classification						Follow-Up By			
Detour Length (km)	999								
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 6.2m, 2 R1 6.2m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)	6.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	6.4	In Advance (Y/N)	Yes
Remarks	NO ADVANCE SIGN @ S/B MERGE LANE LEAVING AIRDRIE.											
Required Load Posting (t)	Single				Semi				Truck Train			
Posted Loading (t)	Single				Semi				Truck Train			
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Posted:	Lane	WB	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												
Other Sign Types	MERGE, INFO, SLOW SIGNS @ ENDS OF STRUCTURE											

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w				Gas				
Power	Attached to girder leg and at SW.				Municipal				
Others	Power for lights				Problem (Y/N)		No		
Remarks	FIBRE OPTICS @ EAST								

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	THIS IS A PEDESTRIAN BRIDGE.
Vertical Alignment		5	5	
Roadway Width (m)	2.200			FROST FENCING @ ENDS. HAND RAIL TO STRUCTURE rates "7".
Approach Bump		6	6	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)				
Termination Type				
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PQ, 4 Spans, Lengths(m): 27.7-36.9-36.9-27.7, A-Ident Number: )						
<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			6	6	Unknown thickness-estimate 50mm.	
(Material Type : <b>CONCRETE</b> )			0.3 mm RANDOM CRACKS @ WEST SPAN			
(Thickness(mm) : <b>50</b> )			Minor spalls @ gutter patches.			
Lateral Connection Problem (Y/N)		No				
Deck Top			X	X		
Deck Rideability			7	7		
Deck Joints			3	3	East abut. and pier 2 gland is torn	
Temperature (deg. C)		11				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
Gap Size (mm)		Gap Location				
25		W. abut				
35		W. pier				
60		Center				
45		E. pier				
37		E. abut				
Deck Drainage			7	7	No deck drains. Drains on grade.	
Drains Clogged (Y/N)		No				
Curbs/Median			7	4	Galv. angle attached to concrete curb. Minor spall developing Sp.1 North exterior.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			3	3	100mm pipe rail at side & overhead 50mm pipe & frost fencing. Aluminum paint & galvanized.	
(Type : <b>STEEL NON-STANDARD RAIL</b> )			Missing 1 bolt at 4 post to curb locations of Sp.3 North side.			
Bridge Rail Posts			4	4	Broken welds at bottom rail to fence Sp.2-2@N 2@S. Sp.3- 1@N. Sp.4-3@N, 1@S.	
(Type : <b>POST STEEL;POST STEEL</b> )			Sp.1 - 3 at South.			
Bridge Rail/Posts Coating			7	5	Missing flat bar at bottom of chain fence - Sp.3 0.5m North and Sp.4 im at South.	
(Type : <b>PAINT</b> )						
Sidewalk			X	X		
<b>Girder Detail Ratings</b>						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Girders			4	4	Typical top chamfer cracks	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>8</b> )						
Diaphragms/Cross Frame			6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PQ, 4 Spans, Lengths(m): 27.7-36.9-36.9-27.7, A-Ident Number: )				
Bearings		7	6	
Temperature (deg. C)	11			
(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			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	Graffiti
Abutment Stability		8	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	7	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		X	3	1 broken post and damage rail at East shoulder.
Type	GUARDRAIL			
Slope Protection		6	6	Block retaining wall & land scaping @ headslopes
(Type : <b>NATURAL; NATURAL</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>7</b>	<b>3</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2011	Repair broken welds at bottom fence to rail- 9 locations. Replace 1.5 m flat bar.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Replace gland @ P2 joint and A2.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Replace 1 post and 1 flexbeam rail at East shoulder.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>75.1/70.1</b>	Est. Repl. Yr	2030	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	13-Jun-2013		Previous Inspection Date	25-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							