

Bridge Inspection										
Bridge File Number	77091 E-1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1970/1970					Lot No.	4			
Bridge or Town Name	CHESTERMERE					Inspector Name	Jason Rusu			
Located Over	1A:08 L1 4.376;1A:08 R1 4.374					Inspector Class	BR CLS A			
Located On	1:10 R1 9.739					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	03-Mar-2012			
Legal Land Location	SW SEC 23 TWP 24 RGE 28 W4M					Data Entry By	Anne Roberts			
Longitude, Latitude	-113:48:45, 51:03:09					Data Entry Date	28-Mar-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts			
Contract Main. Area	CMA30					Review Date	12-Mar-2012			
Clear Roadway/Skew	12.2 /					Dept. Reviewer Name	Tim Davies			
AADT/Year	21,640 / 2011 (A)					Dept. Review Date	29-Mar-2012			
Road Classification	RFD-412.4-130					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 38 GIRDER			Semi	CS2 49		Train	CS3 62 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)			UNDER: 1A L1 5.2m, 1A R1 5.2m										
Posted Vertical Clearance (Y/N)			Yes										
Posted:	Lane	EB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)		In Advance (Y/N)	Yes	
Remarks		W/B posting on 77091WC											
Required Load Posting (t)			Single				Semi				Truck Train		
Posted Loading (t)			Single				Semi				Truck Train		
Posted:	Lane	NB	At Junction (Y/N)				In Advance (Y/N)				At Bridge (Y/N)		
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)	Yes										
Remarks											
Other Sign Types											

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	IN MEDIAN.					Gas			
Power	ATTACHED TO WINGS & ABUT.					Municipal			
Others	STREET LIGHTS.					Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		7	7	
Roadway Width (m)	12.200			
Approach Bump		7	7	
Guardrail (Y/N)		Yes		Missing 4 splice bolts at NW, NE and SW
Guardrail		4	4	
Length (m)	91.000			
Current Standard (Y/N)		No		Not thriebeam
Termination Type		TURNED DOWN ENDS		
Drainage		7	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		8	8		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
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	8	new overlay in 2010	
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top		N	N		
Deck Rideability		8	8		
Deck Joints		8	N	Gravel covered	
Temperature (deg. C)		5			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
74		S. ABUT			
72		C. PIER			
86		N. ABUT			
Deck Drainage		7	7	NO DECK DRAINS.	
Drains Clogged (Y/N)		No			
Curbs/Median		7	7		
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail		8	8	6 A/B nuts with less than full nut engaged	
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts		4	4	Paint over galvanizing	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	5		
(Type : <b>PAINT</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders		5	5	Rating increas due to strengthening TYPICAL FC CRACKING @ GIRDER ENDS. DELAM IN ROOF NE CORNER-minor	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : <b>16</b> )					
Narrow to medium width					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 24.4-24.4, A-Ident Number: )				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	S.S. PLATE DISTORTED @ N.E. at abuts
Temperature (deg. C)	5			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				at pier
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				Teflon is debonding but caulked at NE
				Bearings are tied over pier
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	CORROSION STAINS @ some weep drains
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		5	5	Tar coating
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		X	X	
Type				
Slope Protection		7	7	
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
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							
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.5/60.0</b>	Est. Repl. Yr	2045	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	03-Dec-2013		Previous Inspection Date	12-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							