

Bridge Inspection										
Bridge File Number	79535 E-1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1981/1981				Lot No.	1				
Bridge or Town Name	STRATHMORE				Inspector Name	Jon Davies				
Located Over	WID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B				
Located On	1:12 R1 26.529				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	23-Feb-2012				
Legal Land Location	NW SEC 9 TWP 24 RGE 24 W4M				Data Entry By	Anne Roberts				
Longitude, Latitude	-113:18:04, 51:02:15				Data Entry Date	19-Mar-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts				
Contract Main. Area	CMA30				Review Date	01-Mar-2012				
Clear Roadway/Skew	13.7 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies				
AADT/Year	9,870 / 2010 (A)				Dept. Review Date	22-Mar-2012				
Road Classification	RAD-412.4-120				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:	MS23				----> Primary Span					

Posting Information										
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)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not Required									
Hazard Marker At Bridge (Y/N)	Yes									
Remarks										
Other Sign Types	BRIDGE ICES.									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	SOUTH R/W				Gas				
Power	SOUTH R/W (7 WIRE)-30m FROM CL				Municipal				
Others	Fibre Optics S RW + n R/W				Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Canal road @ SW					
Vertical Alignment		7	7						
Roadway Width (m)		13.500							
Approach Bump		7	7						
Guardrail (Y/N)		Yes		1 post @ NW damaged					
Guardrail		3	3	Transition rail is loose at SE					
Length (m)		30.000		SW wing end has wrong lap					
Current Standard (Y/N)		No		Not thriebeam					
Termination Type		TURNED DOWN							
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 : <b>SM, 1 Spans, Lengths(m): 11, A-Ident Number: </b> )					
<b>Special Features</b>					
Special Feature				File tags SW and NE corners	
(Type : )					
Special Feature					
(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			5	5	Chipcoat on ACP 65mm total thickness Wide cracks @ abut crks btwn girders
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over
Deck Rideability			7	7	
Deck Joints			N	N	ACP Covered
Bump (Y/N)		No			
Deck Drainage			5	5	NO DECK DRAINS.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Minor spall @ SW corner
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			4	4	Missing bolts in rail second post from SE
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	1	4	
<b>Now</b>	0	0	1	4	
Girders			2	2	TYPICAL DIAGONAL CRACK FROM BRG ON SEVERAL UNITS - NARROW HAIRLINE LONGITUDINAL CRACKS IN BOTTOM OF 80% OF GIRDERS. G-10 spall @ W Abut w/staining - 150 X 250L X 20mm G10 @ E - Delamination G7 @ E - Delamination & Med. width longitudinal cracks, staining not from strand. G4 delamination 2.6m from Al. G6 longitudinal cracking with staining rated 2 G1 @ W. - Spall from vertical crack 50 mm from end, exterior face.
Last Complete Inspection Date		23-Feb-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>12</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No		Connector corrosion staining present on underside of girders through out.	
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>2</b>	<b>2</b>	GR carried forward

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : <b>Y</b> )							
(Extended Backwall Piles Spacing(mm) : <b>1600</b> )							
(Total Number of Caps/Corbels : <b>1:1</b> )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				4	4		
(Type : <b>STEEL</b> )							
(Depth(mm) : <b>300</b> )							
(Width(mm) : <b>300</b> )							
Backwalls/Breastwalls			5	5			
Greatest Height (m)		3.20					
Wingwalls			7	7			
(Total Number of Bearing Piles : <b>9:9</b> )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	0	0	0	0			
Piles				5	5		
Paint/Coating				4	4		
Paint gone off bott 300mm of piles and piles scaling, CAP Flanges, scaling							
Abutment Stability				7	7		
Scour/Erosion				7	7		
<b>Piers/Bents</b>							
(Type : )							
(Total Number of Caps/Corbels : )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Bearing Seats/Caps/Corbels				X	X		
(Type : )							
(Depth(mm) : )							
(Width(mm) : )							
(Total Number of Bearing Piles : )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				X	X		
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description : )							
(Colour Code : )							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	No			
Slope Protection (Type : )		6	6	Some rock under bridge Rip Rap
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Blast and paint steel caps					
OTHER ACTION	2012	replace TT gaurdrail post at third post from NW					
OTHER ACTION	2012	Patch delaminations @G1, G4, G7, G10					
OTHER ACTION	2012	Investigate corrosion crack at G6					
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>49.5/49.4</b>	Est. Repl. Yr	2024	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	23-Nov-2013		Previous Inspection Date	07-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							