

Bridge Inspection									
Bridge File Number	73052 W-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1977/1977				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 L1 26.535				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	23-Feb-2012			
Legal Land Location	SW SEC 16 TWP 24 RGE 24 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-113:18:04, 51:02:16				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:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)			
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)	Yes									
Remarks	North side hazard marker not installed in line with rail post. Not require remove									
Other Sign Types										

Utilities (Located at)										
Utility Attachments										
Telephone	SOUTH R/W - 30 FROM CENTRELINE				Gas					
Power	7 WIRE SOUTH R/W, 3 WIRE TO NE				Municipal					
Others	Conduit @ east abut cap. Fibre optic N and South R/W				Problem (Y/N)		No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	RV Park ent 50m E				
Vertical Alignment			7	7					
Roadway Width (m)		13.000			ACP @ Crack over east abut is breaking out and ravelled up to 200 mm x 200 mm x 75 mm deep. Wide crack at West abutment.				
Approach Bump			5	3					
Guardrail (Y/N)		Yes			Not thriebeam				
Guardrail			7	7					
Length (m)		49.000							
Current Standard (Y/N)		No							
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 : VS, 1 Spans, Lengths(m): 10.7, A-Ident Number: )					
<b>Special Features</b>					
Special Feature				File tags at SW and NE	
(Type : )					
Special Feature					
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	1	
<b>Now</b>	0.0	0.0	0.0	1.0	
Wearing Surface			3	3	Cracks between girders - most sealed. 1 wide full length crack revealing up to 160mm wide in shoulder lane
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over
Deck Rideability			5	5	
Deck Joints			N	N	ACP covered At East abut.
Bump (Y/N)		Yes			
Deck Drainage			5	5	NO DECK DRAINS.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Widespread hairline map cracks. Minor break @ fascia @ NW
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			6	6	SINGLE LAYER.
(Type : <b>GALVANIZED STEEL W-BEAM</b> )					
Bridge Rail Posts			6	6	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED 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	0	0	
<b>Now</b>	0	0	0	1	
Girders			4	3	Hairline to narrow longitudinal cracks @ underside at 8 of 12 girders. Typ. diagonal h/l cracks on 50% of girder ends. Connector staining 8 of 12 girder lines Narrow vertical crack at west end of G1 curb unit - 1 point rate increase G4 has 0.4 X 0.5 Delam at A2 G5 has medium cracks, no stains from strand with 200 mm delam associated. Delam extends up interior at South face and edge 1 m from A2.
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			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>4</b>	<b>3</b>	

Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
(Extended Backwall Piles (Y/N) : Y)					
(Extended Backwall Piles Spacing(mm) : 1400;1600)					
(Total Number of Caps/Corbels : 3:4)					
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				7	7
(Type : TREATED TIMBER)					
(Depth(mm) : 355)					
(Width(mm) : 305)					
Backwalls/Breastwalls			5	5	NW Top plank pushing in at NE
Greatest Height (m)		2.40			
Wingwalls			7	7	mostly buried
(Total Number of Bearing Piles : 13:13)					
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				X	X
Abutment Stability			8	8	Tied Back
Scour/Erosion			6	6	
<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)	Yes			Old piles in channel
<b>Substructure General Rating</b>		<b>5</b>	<b>5</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		6	6	
HWM (m below Top of Curb)				No visible HWM
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : <b>RIP RAP; RIP RAP</b> )				
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	2012	Repair longitudinal raveling up to 160mm wide an ACP at shoulder lane, and inspect connector pockets					
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	Remove incorrectly installed hazard marker at NE					
OTHER ACTION	2012	Repair girder delam at G4 and G5					
OTHER ACTION	2012	Repair ACP @ East and West abuts.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.1/54.3</b>	Est. Repl. Yr	2024	Maint. Req'd. (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							