

Bridge Inspection													
Bridge File Number	73809 E-1 Bridge					Form Type	SG						
Year Built/Year Supstr	1986/1986					Lot No.	2						
Bridge or Town Name	WHITECOURT					Inspector Name	Kris Bosters						
Located Over	PEDESTRIAN TRAIL;MCLEOD RIVER, 8.11.107, WATERCRS-ST;TRAIL-PED					Inspector Class	BR CLS A						
Located On	43:16 R1 0.204					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	04-Oct-2011						
Legal Land Location	SW SEC 35 TWP 59 RGE 12 W5M					Data Entry By	Theresa Lacusta						
Longitude, Latitude	-115:42:03, 54:08:18					Data Entry Date	25-Oct-2011						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux						
Contract Main. Area	CMA12					Review Date	22-Oct-2011						
Clear Roadway/Skew	12.5 /					Dept. Reviewer Name	Brent Herrick						
AADT/Year	14,560 / 2010 (A)					Dept. Review Date	26-Oct-2011						
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:	MS350												----> Primary Span
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: PEDESTRIAN TRAIL 5.8m												
Posted Vertical Clearance (Y/N)	No												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	Not required												
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	At Bridge (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		At Bridge (Y/N)		At Bridge (Y/N)		
Remarks	Not required.												
Hazard Marker At Bridge (Y/N)	Yes												
Remarks	West end only.												
Other Sign Types	Information, Logging Trucks Turning, Slippery, Speed, River ID - West end only.												
Utilities (Located at)													
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE												
Telephone	North r/w.					Gas	North r/w 20m.						
Power	4 wires South r/w.					Municipal	Light standard both ends & on bridge.						
Others	Fibre optics South r/w. Hydrant @ SE r/w.					Problem (Y/N)	No						
Remarks													
Approach Road													
				<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>							
Horizontal Alignment				6	6	Intersections at both ends of bridge.							
Vertical Alignment				8	8								
Roadway Width (m)	12.400												
Approach Bump				7	7								
Guardrail (Y/N)	Yes					NW transition connection missing both bolts. Insufficient posts.							
Guardrail				3	4	Insufficient length. Bulb end @ East. Broken post at NE corner - photo.							
Length (m)	40.400					SE - 55.6; NE - 13.8; SW - 58.0; NW - 40.4.							
Current Standard (Y/N)	No												
Termination Type	Turned Down												
Drainage				5	5								
<b>Approach Road General Rating</b>				<b>6</b>	<b>6</b>								

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>WG, 4 Spans, Lengths(m): 44-54-54-44, A-Ident Number: A1034-01</b> )						
<b>Special Features</b>						
Special Feature			X	Light Standard "8" on bridge.		
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow and debris along gutters.	
<b>Last</b>	5					
<b>Now</b>						
Wearing Surface			6	6	Transverse cracks reflecting through ACP. Transverse cracks over piers.	
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>50</b> )						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			6	6	Fingers rattle under truck traffic, both abutments. No gaps under fingers. Minor abrasion along paving lip.	
Temperature (deg. C)		10				
(Expansion Type : <b>FINGER PLATES</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
64			E. abut			
72			W. abut			
Deck Drainage			4	7		
Drains Clogged (Y/N)		No				
Curbs/Median			N	6	(Minor plow scrapes. 08/Apr/2008) Covered in snow. Narrow transverse cracks 600mm o/c.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			7	7	(Loose nut @ 15th post from the SE corner, insufficient thread on A/B - photo. 08/Apr/2008) Covered in snow.  Dirty.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts		N	7			
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating		7	7			
(Type : <b>GALVANIZED</b> )						
Sidewalk			4	4	Minor flexural cracks, insufficiently threaded A/B. Not to standard height <1.2m high. Typical transverse cracks. Spall exterior of sidewalk @ both abutments.	
<b>Girder/Beam</b>						
Cover Plate		X	X	6 girders / span.		
Flange		8	8			
Web		8	8			
Stiffeners		8	8			
Splice		8	8			
Weld		8	8			
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 4 Spans, Lengths(m): 44-54-54-44, A-Ident Number: A1034-01</b> )				
Paint Condition		5	6	Minor rust @ ends by joints. Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		6	6	Fixed at pier 2
Temperature (deg. C)	10			
(Expansion Type : <b>ROCKER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		4	4	Cracking with corrosion staining at SE.
Piles		N	N	
Paint/Coating		4	4	50% peeling
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Viewed from banks.
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	N	
Debris (Y/N)	Yes			About 10m3 of drift caught on pier 1.
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>CONCRETE</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>7</b>	<b>7</b>	
<b>Grade Separation</b>				
Road Alignment		7	7	Chain link.
Traffic Safety Features		7	7	
Type	Fence			
Slope Protection		7	7	
(Type : <b>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	2011	Tighten loose nut on South rail post #15 from East.					
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	2011	Replace missing bolt @ NW approach connection.					
OTHER ACTION	2011	Replace broken guardrail post at NE.					
OTHER ACTION	2011	Seal cracks in ACP					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.8/68.5</b>	Est. Repl. Yr	2052	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	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	04-Jul-2013		Previous Inspection Date	30-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							