

Bridge Inspection									
Bridge File Number	02235 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1957/1957				Lot No.	2			
Bridge or Town Name	ECKVILLE				Inspector Name	Jason Saly			
Located Over	LASTHILL CREEK, 3.88.12, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	766:12 C1 3.264				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Feb-2012			
Legal Land Location	SW SEC 15 TWP 39 RGE 3 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:21:41, 52:20:55				Data Entry Date	09-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	29-Feb-2012			
Clear Roadway/Skew	7.9 / 0 deg.				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	2,550 / 2010 (A)				Dept. Review Date	14-Mar-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	H 39 GIRDER	Semi	HS 51 GIRDER	Train	CS3 74 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	At varying heights & locations (0.7m o/s).								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	4 wires across road @ North end & 3 wires 20m off c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	'T' intersection at SW corner.				
Vertical Alignment			8	8					
Roadway Width (m)	8.600								
Approach Bump			4	4	Bump markers installed both approaches, settled.				
Guardrail (Y/N)	Yes								
Guardrail			7	6					
Length (m)	19.000								
Current Standard (Y/N)	No				19m @ SW, 34.2m @ SE & NW, 22.8m @ NE.				
Termination Type	TURNED DOWN				Not standard spacing, posts off end of bridge - 1 required all corners.				
Drainage			8	N	Snow covered.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, 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 (%)	Gutters snow covered.
<b>Last</b>	0	0	0	0	
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface			4	6	(Delam adjacent joints - photos. 13Sep2005). Chip seal coat on HDOL.
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>100</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	4	Open joint at N/S abut causing slope erosion. Fibre board missing at both abut joints. Jnt leakage causing deterioration fo concrete end diaphragms at pier locations.
Temperature (deg. C)		-5			
(Expansion Type : <b>SLIDING PLATES</b> )					
(Fixed Type : <b>BUFFER ANGLES</b> )					
Gap Size (mm)		Gap Location			
46		1 pier (South pier)			
45		2 pier (North pier)			
30		Abut 1 (South abutment)			
14		Abut 2 (North abutment)			
Deck Drainage			5	4	No deck drains. See deck jnt diaphragm; underside deck & bearing damage from leakage. Som hslp erosion.
Drains Clogged (Y/N)					
Curbs/Median			3	3	Wide longit. crack full length of E curb. Various delam/spall W curb due to low cover.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		20			
Bridge Rail			6	5	Single layer; minor accident damage @ W rail, N span - no problem. Some nuts only 50% threaded. NW end post missing nut on one A/B.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			3	3	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			6	6	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number: )				
Girders		5	5	Typical spalls around shoe plates.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 12)				
Diaphragms/Cross Frame		6	4	Minor scaling at abut diaphragms due to leaky joints. Spalling of end diaphragms at the S pier.
Bearings		5	5	Bearings not set on proper alignment on South pier East side.
Temperature (deg. C)	-11			
(Expansion Type : )				
(Fixed Type : )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Staining & slight spalling of concrete at joint locations under the gutter.
Stains (Percent Area)	1			
<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	5	Horiz. crack in N abut, minor. Gravel, dirt & debris on seats.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	6	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		3	4	Minor erosion channels start at N abut seat.
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				Cracked & scaling under P1G1 & P1G4 bearings. Staining from joints; vertical cracks extending from under P1G1/P1G4 bearings.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		5	5	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		5	5	Nose plate has surface corrosion.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	5	Minor scour around S pier.
Debris (Y/N)	Yes			Debris against S pier on S bank.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		8	8	
Bank Stability		8	7	
HWM (m below Top of Curb)				HWM not visible but drift accumulation on top of pier caps indicates level of high water.
Drift (Y/N)	No			
Slope Protection		3	4	Insufficient at hspls.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	5	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		3	4	



Comment	
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