

Bridge Inspection									
Bridge File Number	01227 -1 Bridge				Form Type	PT			
Year Built/Year Supstr	1964/1963				Lot No.	2			
Bridge or Town Name	EDBERG				Inspector Name	Jason Saly			
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	56:16 C1 23.856				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	13-Feb-2013			
Legal Land Location	SW SEC 16 TWP 44 RGE 19 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-112:42:47, 52:47:14				Data Entry Date	18-Mar-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA16				Review Date	25-Feb-2013			
Clear Roadway/Skew	7.9 /				Dept. Reviewer Name	Chris Black			
AADT/Year	1,390 / 2011 (A)				Dept. Review Date	28-Mar-2013			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	19								
Allowable Load (t):	Single	H 31 STRINGER		Semi	HS 49		Train	CS3 62 U1U2	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
	----> 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	Not required.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Warning sign on u/s, S1 bottom chord.								
Utilities (Located at)									
Utility Attachments									
Telephone	E r/w.				Gas				
Power					Municipal				
Others	Fish ladder to the SW.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve just before bridge and at bottom of South hill. Est 5% grade to the South, crest curve to North. SH 609 road intersection 175m South.				
Vertical Alignment			5	5					
Roadway Width (m)	9.500				Recent transition paving.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Missing 4 post to block bolts at NE.				
Guardrail			4	7					
Length (m)	30.400								
Current Standard (Y/N)	No				Thriebeam but not attached to bridge				
Termination Type	Turned Down Ends								
Drainage			6	N	Snow covered.				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 2 Spans, Lengths(m): 35.1-35.1, A-Ident Number: A0450-01;A0450-02)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	1	
Now	0.0	0.0	0.0	0.0	
Wearing Surface/Deck Top			3	4	Chipseal lost where overlay cracked, approx 5m2.. Trans. cracks above each floor beam.
(Material Type : CONVENTIONAL CHIP SEAL COAT)					
(Plank Thickness(mm) :)					
(Plank Width(mm) :)					
Deck Rideability			6	6	
Deck Joints			3	3	3 coverplate bolts missing at pier at NBL. Paving lip spalls along N abut jnt. Coverplate has spall at NE anchorage. N abut, gland torn (300mm). 70mm - S abut.
Temperature (deg. C)		-2			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC);ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
48			Pier		
8			North abutment		
Curbs/Wheel Guards			4	5	Concrete o/s fascia is spalled over each floor beam. Delaminated curb tops at SE & SW corners. SE parapet curb has delam. SW parapet has corner chipped off. Minor spall NW corner.
(Curb Type : Standard)					
(Type : CONCRETE)					
(Curb Height(mm) : 250)					
(Width(mm) : 250)					
Bridge Rail			4	4	S2 U1L0E missing 2 rail to truss bolts. Neoprene between rail & bridge. Rail bolt holes to truss sloppy at S end. P3 Minor damage to S1, bay 5 W rail.
(Type : GALVANIZED STEEL NON-STANDARD RAIL)					
Bridge Rail Posts/Blocking			5	5	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	

Superstructure							
Bridge Component		Last		Now		Explanation of Condition	
(Primary Span : PT, 2 Spans, Lengths(m): 35.1-35.1, A-Ident Number: A0450-01;A0450-02)							
Wide Load Damage (Y/N)	Yes					See 2012 UT report for details.	
Top Chord			7	7			
Batter Posts			7	7			
Diagonals			7	7			
Verticals			7	7			
Connections			6	6			
Floor Beams			7	7			
Bottom Chord			7	7			
Lateral Bracings			7	7			
(No. of Stringers : 30;30)							
Stringer Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Stringers			6	6		Several stringers have been butt welded.	
(Type : STEEL)							
(Width(mm) : 190)							
(Depth(mm) : 460)							
(Spacing(mm) : 1828)							
Paint Condition			7	7		Minor rust lines between lower connection gussets & member.	
(Colour Description : GREEN)							
(Colour Code : 14090)							
Touchup Required (Y/N)	No						
Bearings			4	5		Expansion bearings missing 3 skirt plate bolts & 1 slightly bent skirt plate at L6W-S2. (Grout pad spalled NE & NW corners of A2. 09May2011) - Snow at corner of abuts.	
Temperature (deg. C)	-2						
(Expansion Type : ROLLER NEST BEARING)							
(Fixed Type : PINNED BEARING)							
Functioning (Y/N)	Yes						
Sub Deck/Deck Underside			6	6		Hairline transverse cracks every approx 1.5m, minor.	
(Material Type : CONCRETE)							
(Plank Thickness(mm) : 150)							
(Plank Width(mm) :)							
Defects (Percent Area)	1						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating			6	6		Bearing grout pads do not govern.	
Substructure							
Bridge Component		Last		Now		Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : N)							
(Extended Backwall Piles Spacing(mm) :)							

Substructure								
Bridge Component		Last	Now	Explanation of Condition				
(Total Number of Caps/Corbels : 1:1)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	0				
Now	0	0	0	0				
Bearing Seats/Caps/Corbels			7	5	Minor scaling W end of S abut. Surface spall delam in N abut.			
(Type : CONCRETE)								
(Depth(mm) : 1000)								
(Width(mm) : 570)								
Backwalls/Breastwalls			7	6	Cracked concrete and efflorescence below abutment 2 joint.			
Greatest Height (m)		2.70						
Wingwalls			7	7				
(Total Number of Bearing Piles : 0:0)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	10	0	0	0				
Now	100	0	0	0				
Piles			N	N	Buried.			
Paint/Coating			X	X				
Abutment Stability			7	6				
Scour/Erosion			6	6	Settlement/erosion both headslopes, minor.			
Piers/Bents								
(Type : PIER-SOLID)								
(Total Number of Caps/Corbels : 2)								
Bearing Seats/Caps/Corbels Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	0				
Now	0	0	0	0				
Bearing Seats/Caps/Corbels			6	6	Random narrow vertical cracks, with minor corrosion.			
(Type : CONCRETE)								
(Total Number of Bearing Piles : 0)								
Piles Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
Last	0	0	0	0				
Now	0	0	0	0				
Pier Shaft/Piles			6	5	Minor shallow spalls. Minor deterioration at waterline N side. Surface delams N side of pier.			
Greatest Height (m)		4.00						
Bracing/Struts/Sheathing			X	X				
Nose Plate			7	7				
Paint/Coating			4	4	60% paint failure with superficial corrosion of nose plate - no action.			
(Colour Description :)								
(Colour Code :)								
Pier Stability			7	7				
Scour			7	N	Ice.			
Debris (Y/N)		No						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	6	
HWM (m below Top of Curb)	2.0			(HWM 2m. (92/08/17). (Ice to deck 5.48m). HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	Class 1 and sandbags.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				Control structure 50m West.
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install rail to truss bolts.					
RETROFIT BRIDGE RAIL	2013	(Place clip angle missing bolts. 11Jun2012).					
PATCH DECK	2016	(Patch chipcoat, 5m2. 11Jun2012).					
REPLACE SUB DECK							
RESET/ PAINT BEARINGS	2013	(Recast both grout pads at A2. 11Jun2012).					
REPAINT SUPERSTRUCTURE	2013	Touch-up scrapes & caulk area that weep rust stains.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch spalls on curb exteriors above floor beams on parapets & delam on top of SE curb and SW.					
OTHER ACTION	2013	Fill hole under abutment settlement.					
OTHER ACTION	2013	(Patch NE jnt coverplate anchorage. 11Jun2012).					
OTHER ACTION	2013	Replace 4 bolts on pier cover plate; check all others.					
OTHER ACTION	2013	Patch or replace gland at N abut.					
OTHER ACTION	2013	Address transverse cracks above floor beams.					
OTHER ACTION	2013	Redo vertical alignment to reduce ramping effect.					
OTHER ACTION							
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Structural Condition Rating (Last/Now) (%)	66.7/61.1	Sufficiency Rating (Last/Now) (%)	58.6/54.9	Est. Repl. Yr	2042	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0

Proposed Long-Term Strategy	Rehab about 2013. Replace 2040 and minor repairs required in 2008.RS		
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	Randy Bredo
Next Inspection Date	13-Nov-2014	Previous Inspection Date	11-Jun-2012
Inspection Cycle (Default) (months)	21		
Comment			