

Bridge Inspection							
Bridge File Number	07855 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1967/1967			Lot No.	1		
Bridge or Town Name	BRUDERHEIM			Inspector Name	Michael Bird		
Located Over	ASTOTIN CREEK, 6.62.1, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	830:04 C1 7.593			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	30-Mar-2012		
Legal Land Location	NW SEC 18 TWP 56 RGE 20 W4M			Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-112:58:33, 53:50:33			Data Entry Date	24-Apr-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA14			Review Date	17-Apr-2012		
Clear Roadway/Skew	10.1 / 30 deg. (RHF)			Dept. Reviewer Name	Brent Herrick		
AADT/Year	2,040 / 2011 (A)			Dept. Review Date	04-May-2012		
Road Classification	RAU-210-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 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	Not required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Missing @ SE corner.							
Other Sign Types	Narrow Bridge (both ends).							

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w & East r/w.		Gas
Power	3 wires OH East r/w. 3 lines cross 830, 300mm North.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances each way.
Vertical Alignment		7	7	
Roadway Width (m)	11.600			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	31.000			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		N	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number: )</b>								
<b>Special Features</b>								
Special Feature			X					
(Type : )								
Special Feature			X					
(Type : )								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)				
<b>Last</b>	50							
<b>Now</b>	0.0	0.0	0.0	0.0				
Wearing Surface			5	5	Chipseal, over concrete 100mm.			
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )								
(Thickness(mm) : <b>50</b> )								
Lateral Connection Problem (Y/N)		No						
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			N	6				
Bump (Y/N)		No						
Deck Drainage			N	4	Deck drainage cause erosion gullies on headslopes.			
Drains Clogged (Y/N)		No						
Curbs/Median			N	6				
(Curb Type : <b>Standard</b> )								
Scaling (Percent Area)								
Bridge Rail			7	7	Paint over galvanize.			
(Type : <b>GALVANIZED STEEL FLEX BEAM</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			X	X				
Girder Detail Ratings								
	N (count)	1 (count)	2 (count)	3 (count)				
<b>Last</b>				4				
<b>Now</b>	12	0	0	0				
Girders			3	N	Hairline cracks near 60 degree. Stains at ends, poor patches. G8/G9 SP3 @ P2 spalled, AZ one leg with sound concrete, G11 SP2 @ P1 spalled,G2 SP1 @ spalled in AZ with sound concrete( Spall along G6 S2.) 22 Dec08 Staining around deck drains. Several girders have 1 leg cracked in AZ. Patched punchouts G4,5,6 SP3 Unable to inspect centre span due to thin ice/deep water. Viewed from each corner.			
Last Complete Inspection Date		22-Dec-2008						
Cracking (Y/N)		Yes						
Spalling (Percent Area)		1						
Lift or Connector Pocket Grouted (Y/N)								
(Number Of Girders : <b>36</b> )								
<b>Span Alignment Problems</b>								
Vertical (Y/N)		No						
Horizontal (Y/N)		No						
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	GR carried forward 22 Dec 08			

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>1400</b> )							
(Total Number of Caps/Corbels : <b>3:3</b> )				H-iron caps with TT subcaps. TT (75mm) shim on top caps.			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
<b>Last</b>							
<b>Now</b>	0	0	0			0	
Bearing Seats/Caps/Corbels						5	5
(Type : <b>STEEL</b> )							
(Depth(mm) : <b>350</b> )							
(Width(mm) : <b>375</b> )							
Backwalls/Breastwalls						5	5
Greatest Height (m)		2.00					
Wingwalls				5	5		
(Total Number of Bearing Piles : <b>8:8</b> )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Piles				5	5		
Paint/Coating				4	4		
Some flake rust along steel caps.							
Abutment Stability				7	7		
Scour/Erosion				N	4		
Erosion gullies up to 300mm depth from deck drainage.							
<b>Piers/Bents</b>							
(Type : <b>PIER-COLUMN</b> )							
(Total Number of Caps/Corbels : <b>3:3</b> )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				5	5		
(Type : <b>STEEL</b> )							
(Depth(mm) : )							
(Width(mm) : )							
(Total Number of Bearing Piles : <b>10:10</b> )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>	0	0	0	0			
Pier Shaft/Piles				6	6		
Greatest Height (m)		2.50					
Bracing/Struts/Sheathing				4	5		
Nose Plate				X	X		
Paint/Coating				4	4		
Some flake rust along steel caps.							
(Colour Description : )							
(Colour Code : )							
Pier Stability				7	7		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		N	6	
Debris (Y/N)	Yes			Few pieces of drift.
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : )				
(D/S Direction : )				
Alignment		7	7	
Bank Stability		N	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	Erosion gullies from deck drainage.
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</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							
OTHER ACTION	2012	Replace missing hazard marker					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.3/58.1</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder deterioration		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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	30-Jun-2015		Previous Inspection Date	22-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							