

Bridge Inspection											
Bridge File Number	79436 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1983/1983				Lot No.	2					
Bridge or Town Name	HARDISTY				Inspector Name	Owen Salava					
Located Over	CPR				Inspector Class	BR CLS A					
Located On	881:02 C1 2.359				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	09-Aug-2011					
Legal Land Location	NW SEC 6 TWP 43 RGE 9 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-111:18:00, 52:40:34				Data Entry Date	19-Sep-2011					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA16				Review Date	16-Aug-2011					
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Andrew Smikles					
AADT/Year	1,020 / 2010 (A)				Dept. Review Date	26-Sep-2011					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	5										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	MS300									----> Primary Span	

Posting Information											
Required Vert. Clearance Posting (m)											
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	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		S end markers too low, off line. - OK									
Other Sign Types		50km/h; Dangerous Goods Route									

Utilities (Located at)											
Utility Attachments											
Telephone	2 cables in W curb - conduit.				Gas	W r/w ATCO.					
Power					Municipal						
Others					Problem (Y/N)	No					
Remarks											

Approach Road										
				Last	Now	Explanation of Condition				
Horizontal Alignment				8	8	Entering into Hardisty town limits. Speed limit of 50 km/hr posted. On blind vertical crest curve. Curb & gutter on S. app where CR widens to 12.2 m in town. S. end hazard markers not in line with rail.				
Vertical Alignment				5	5					
Roadway Width (m)		9.000				On N end only for 200 m.  Insufficient posts/spacing/blocking.				
Approach Bump				6	6					
Guardrail (Y/N)		Yes								
Guardrail				7	7					
Length (m)		99.000								
Current Standard (Y/N)		No				Shoulder spalled at SW trough drain.				
Termination Type		TURNED DOWN								
Drainage				7	7					

Approach Road				
		Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>		5	5	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 3 Spans, Lengths(m): 14-16-14, A-Ident Number: A0934-01</b> )				
Special Features				
Special Feature			X	
(Type : )				
Special Feature			X	
(Type : )				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
<b>Last</b>	0	0	0	0
<b>Now</b>	0.0	0.0	0.0	0.0
Wearing Surface		6	6	(Random narrow transverse cracking. 27Jul2007). 10mm thickness.
(Material Type : <b>CONVENTIONAL CHIP SEAL COAT</b> )				
(Thickness(mm) : )				
Deck Top		X	X	
Deck Rideability		7	7	
Deck Joints		5	5	
Temperature (deg. C)		19		
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )				
(Fixed Type : )				
Gap Size (mm)		Gap Location		
65		N. abut		
102		S. abut		
Deck Drainage		8	8	All drainage to south abut.
Drains Clogged (Y/N)				
Curbs/Median		6	6	Jersey type cast in place curbs with hairline cracks every 0.3m.
(Curb Type : <b>JERSEY/F SHAPE</b> )				
Scaling (Percent Area)		0		
Bridge Rail		8	8	Single 75 x 50 mm HSS tube rail on top of jersey barrier.
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )				
Bridge Rail Posts		8	8	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )				
Bridge Rail/Posts Coating		8	8	(Type : <b>GALVANIZED</b> )
Sidewalk		8	8	On east side of structure with 1100 mm vertical slat railing.

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>WG, 3 Spans, Lengths(m): 14-16-14, A-Ident Number: A0934-01</b> )					
<b>Girder/Beam</b>					
Cover Plate		8	X		
Flange		8	8		
Web		8	8		
Stiffeners		8	8		
Splice		8	8		
Weld		8	8		
Diaphragms/Cross Frame		8	8		
Paint Condition		7	7	Weathering steel with excessive graffiti sprayed onto ends of girders @ abuts.	
(Colour Description : )					
(Colour Code : )					
Touchup Required (Y/N)	No				
Bearings		8	8	A1 P1,2 & A2.	
Temperature (deg. C)	19				
(Expansion Type : <b>REINFORCED PAD BEARING</b> )					
(Fixed Type : <b>PINNED BEARING</b> )					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		8	8	Exhaust soot.	
Stains (Percent Area)	0				
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
<b>Superstructure General Rating</b>		<b>8</b>	<b>8</b>		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
Bearing Seats/Caps		5	5		
(Type : <b>CONCRETE</b> )					
Backwalls/Breastwalls		6	6		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		7	7	Graffiti	
Abutment Stability		7	7		
Scour/Erosion		7	7		
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )				Spot rusting.	
Bearing Seats/Caps		7	7		
(Type : <b>CONCRETE</b> )					
(Total Number of Bearing Piles : <b>6:6</b> )					
Pier Shaft/Piles		8	8		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		5	5	Faded. Yellow.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		8	8	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>5</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		6	6	Settled at N & S 50mm.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		8	8	
Drainage		8	8	
<b>Grade Separation 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							
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	2012	Patch trough spall at SW, 0.1m3 concrete.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>73.1/69.2</b>	Est. Repl. Yr	2047	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy	2005.03.30 Rehab in 2020. Bridge should be good until 2080.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Randy Bredo		Previous Assistant's Name				
Next Inspection Date	09-Nov-2014		Previous Inspection Date	27-Jul-2007			
Inspection Cycle (Default) (months)	39						
Comment							