

Bridge Inspection									
Bridge File Number	72279 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1977/1977				Lot No.	1			
Bridge or Town Name	GORDONDALE				Inspector Name	Brian Pientsch			
Located Over	HENDERSON CREEK, 8.10.97.8, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	49:02 C1 25.512				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	25-Jul-2011			
Legal Land Location	SW SEC 15 TWP 79 RGE 11 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-119:38:04, 55:50:23				Data Entry Date	04-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA05				Review Date	29-Sep-2011			
Clear Roadway/Skew	9.8 / 0 deg.				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	1,140 / 2010 (A)				Dept. Review Date	18-Nov-2011			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> Primary Span		

Posting Information									
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	
Posted:	Lane	WB	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	SE not attached, reflective coating, peeling away.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	2 cables through N. curb unit				Gas				
Power	30 m south of centerline - 3L				Municipal				
Others					Problem (Y/N)	No			
Remarks	Phone North r/w.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	In sag curve passing both directions.				
Vertical Alignment			8	8					
Roadway Width (m)	10.500				200mmWx60mDx1.0mL				
Approach Bump			5	3	Pot hole in ACP E abutment.-photo				
Guardrail (Y/N)	Yes				1 broken post at NW corner. photo				
Guardrail			4	3	1 section torn and 2 sections dented at NW.				
Length (m)	30.400				1 post broken at SW. photo				
Current Standard (Y/N)	No				Missing 6 bolts NE approach.-photo				
Termination Type	TURNED DOWN ENDS								
Drainage			4	4	Erosion holes behind wingwalls at E. abut.				
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	2.0	0.0	0.0	1.0	
Wearing Surface			6	3	Chip coat on overlay. Cracks apparent along girder lines. 200mmWx1.0mLx70mmD spall near P1 North.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			3	3	Buffer angle at E. abut 5m has been removed. Edge loose-photo E. pier deck joint extrusion weld cracked and paving lip at cl, same at W. pier. East and West pier deck joints leaking - worst near pier ends. photo
Temperature (deg. C)		18			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
40		E. pier			
50		W. pier			
Deck Drainage			4	4	Water drains under approach curbs at East end. No drains. Deck leaking through pier joints.
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Numerous spalls and delams throughout.-photo
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			7	7	16 bolts with insufficient thread. photo
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			3	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	1	
Girders			4	3	All girders have HL longitudinal cracks < 500mm at ends. Narrow crack along bottom of girder 9 in SP2-near midspan. S1G1-rust stain and delam crack-photo
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 27)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RD, 3 Spans, Lengths(m): 15.2-15.2-15.2, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	(Girders acting independently.)
Bearings		5	4	Bearings have minor distortion with bulging at curbs.
Temperature (deg. C)	20			
(Expansion Type :)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Random rust spots on underside. Girders not from strands.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	N	
Wingwalls		5	4	SW wing has med cks on top.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Medium vertical cracks near cap ends.
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 6:6)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		3	3	Bracing is 100% rusted - piles are 20% rusted. (photo)
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		7	7	
Scour		4	3	East headslope eroded leaving vertical bank.-photo 5mWx10mLx2.5mD scour East headslope.
Debris (Y/N)	Yes			8 old piles in channel.
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)		Gradual curve u/s & d/s.		
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		4	4	Vertical cut bank along E. headslope. photo 600mm slump 8m dia. SW of bridge.
HWM (m below Top of Curb)	3.2			2-July-2011
Drift (Y/N)	No			
Slope Protection (Type : NONE)		4	3	East headslope eroded leaving vertical bank. 5mWx10mLx2.5mD scour East headslope.-photo
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2012	Repair spalls and delams.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Replace					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair East headslope					
PLACE ADDITIONAL RIP RAP	2012	Install 60m3 Class 2 riprap East headslope					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace broken GR posts & missing bolts.					
OTHER ACTION	2012	Repair hazard markers					
OTHER ACTION	2012	Sandblast and paint pier piles and bracing.					
OTHER ACTION	2012	Repair S1G1-remove unsound concrete and patch.					
Structural Condition Rating (Last/Now) (%)	55.6/50.0	Sufficiency Rating (Last/Now) (%)	57.0/54.5	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks and deck cracks.		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	Shane Hall			
Next Inspection Date	25-Apr-2013		Previous Inspection Date	27-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							