

Bridge Inspection											
Bridge File Number	72059 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1968/1968				Lot No.	1					
Bridge or Town Name	DUCHESS				Inspector Name	Tom Carey					
Located Over	ONETREE CREEK, 3.12, WATERCRS-ST				Inspector Class	BR CLS A					
Located On	544:02 C1 10.478				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	15-Feb-2010					
Legal Land Location	SW SEC 13 TWP 20 RGE 14 W4M				Data Entry By	Kelsey Roberts					
Longitude, Latitude	-111:49:21, 50:41:18				Data Entry Date	03-Mar-2010					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA23				Review Date	23-Feb-2010					
Clear Roadway/Skew	10.1 / -30 deg. (LHF)				Dept. Reviewer Name	Lorenz Bohnert					
AADT/Year	1,520 / 2008 (A)				Dept. Review Date	08-Mar-2010					
Road Classification	RCU-208-110				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28 GIRDER			Semi	CS2 49 GIRDER			Train	CS3 65 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	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 req.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	S GIRDER-CONDUIT & @ S R/W				Gas	crossing 15 m WEST				
Power	3 WIRE N DITCH & 3 W X'S				Municipal					
Others	ROAD 30 m WEST				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	ROAD NOT CENTRED OVER BRIDGE				
Vertical Alignment			9	9					
Roadway Width (m)		8.600							
Approach Bump			8	8					
Guardrail (Y/N)		Yes							
Guardrail			6	6	Type 6@ S.E. All other @ 7.6m and turndown Not thriebeam				
Length (m)		4.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage			8	8					
<b>Approach Road General Rating</b>			<b>8</b>	<b>8</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 2 Spans, Lengths(m): 6.1-6.1, 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>	0	0	0	0		
<b>Now</b>	10.0	0.0	0.0	0.0		
Wearing Surface			7	7	EXCESSIVE THICKNESS SAME HEIGHT AS CURB ON S.SIDE 120mm BELOW N.CURB	
(Material Type : <b>ACP</b> )						
(Thickness (mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			N	N		
Bump (Y/N)		No				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			3	3	CURB INEFFECTIVE @ S DUE TO ACP DEPTH. Curbs spalled @ posts 1,2 & 8 @ south.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Double layer Anchor bolts are brok or damaged on the south 1st and 2nd posts from west.  Concrete broken exposing anchoring assembly on 3 posts @ south-1,2,8	
(Type : <b>FLEX BEAM</b> )						
Bridge Rail Posts			2	3		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0		3	1		
<b>Now</b>	0	0	1	0		
Girders			2	2	S-1, G-7, 2 punchouts 900x500 areaa with rebar exposed.- appear repaired with plate @ top.  CROWN NOT ON CENTRE-5 UNITS N, 7 UNITS S. ROAD HAD BEEN WIDENED TO S. Girder 4, 5, 6 in span 1 have wide flexural cracks in the AZ at pier end- #5,6- medium #4- wide 1 lift hook pocket on curb not filled & 2 deteriorated	
Last Complete Inspection Date		15-Feb-2010				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : <b>24</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>			<b>2</b>	<b>2</b>		

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>1500</b> )						
(Total Number of Caps/Corbels : <b>5:5</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>TREATED TIMBER</b> )						
(Depth (mm) : <b>350</b> )						
(Width (mm) : <b>300</b> )						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		3.00				
Wingwalls				7	7	
Only S.W. angled wing not seen- snow.						
(Total Number of Bearing Piles : <b>0:0</b> )						
SEVERAL SPLIT BUT BANDED.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Piles				6	6	
Paint/Coating				X	X	
Abutment Stability				7	6	
25mm lean at east						
Scour/Erosion				7	N	
ice and snow						
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>6</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>TREATED TIMBER</b> )						
(Depth (mm) : <b>300</b> )						
(Width (mm) : <b>350</b> )						
(Total Number of Bearing Piles : <b>0</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				6	6	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		7	N	Snow and ice
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		6	6	(STREAM FLOWS ALONG E ABUT.)
Bank Stability		5	N	Snow
HWM (m below Top of Curb)				NO VISIBLE HWM
Drift (Y/N)	No			
Slope Protection (Type : )		6	N	Snow
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>5</b>	<b>6</b>	G.R. carried forward

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
REPAIR/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	2010	Grout lift hook pockets (0.2m3 grout)					
OTHER ACTION	2010	Replace bridge					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.0/60.1</b>	Est. Repl. Yr	2010	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Informed A.T. Feb 18/10- Bridge is scheduled for replacement in 2010.		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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	15-May-2013		Previous Inspection Date	21-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							