

Bridge Inspection									
Bridge File Number	72807 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1982/1982				Lot No.	2			
Bridge or Town Name	DUNSTABLE				Inspector Name	Melanie Johnson			
Located Over	MACDONALD CREEK, 8.11.84.35, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	651:02 C1 3.262				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Jun-2011			
Legal Land Location	SW SEC 1 TWP 58 RGE 3 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:19:29, 53:58:40				Data Entry Date	06-Jul-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA10				Review Date	29-Jun-2011			
Clear Roadway/Skew	10 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	800 / 2010 (A)				Dept. Review Date	18-Jul-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:	MS23						----> 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	Not on bridgerail, does not meet standard height.								
Other Sign Types	Narrow structure.								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	2 wires 40 m east bridge.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Local road intersection 50m West.				
Vertical Alignment			6	6	Crest curve East of crossing. No passing both directions with limited sight distance.				
Roadway Width (m)	9.500								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				Accident damage SW corner, functional. Insufficient post spacing & length.				
Guardrail			5	5					
Length (m)	12.000								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			3	6	Hole in SW corner causing heavy erosion in West headslope - PATCHED.				

Approach Road					
		Last	Now	Explanation of Condition	
<b>Approach Road General Rating</b>		4	6		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 3 Spans, Lengths(m): 6-10-6, A-Ident Number: )</b>					
Special Features					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>					
Wearing Surface		4	5	Chipseal over 140mm ACP.	
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N	Paved over.	
Deck Rideability		7	7		
Deck Joints		N	N	Paved over.	
Bump (Y/N)	No				
Deck Drainage		8	7	Eroded slope from approach drainage. Pier caps and pile stains from pier/girder leakage.	
Drains Clogged (Y/N)	No				
Curbs/Median		2	5	Curb girders spalled over P2 SPALLS PATCHED- photo.	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	0				
Bridge Rail		7	7		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	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>					
Girders		3	5	Curb girders had the damage and ratings raised by 1 point from R = 2 for that reason. Spalled curb units at ends over P2 both sides, worst @ SE. Staining on underside, rust from shear connectors. ALL CURB GIRDER SPALLS PATCHED-PHOTO	
Last Complete Inspection Date	29-Jun-2011				
Cracking (Y/N)	No				
Spalling (Percent Area)	2	Connector pockets not visible, lift hooks on curbs grouted.			
Lift or Connector Pocket Grouted (Y/N)	No				
(Number Of Girders : <b>27</b> )					
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>SM, 3 Spans, Lengths(m): 6-10-6, A-Ident Number: )</b>						
<b>Superstructure General Rating</b>		<b>3</b>	<b>5</b>			
Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )					Fill material has settled ~0.4m. Only exposed area visible, not enough to rate. Fill material has eroded from under caps/wingwall & has exposed piles.	
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Bearing Seats/Caps/Corbels		<b>7</b>	<b>7</b>			
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
Backwalls/Breastwalls		<b>5</b>	<b>5</b>			
Greatest Height (m)		1.40				
Wingwalls		<b>5</b>	<b>5</b>			
(Total Number of Bearing Piles : <b>8:8</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	16					
<b>Now</b>	16	0	0	0		
Piles		<b>N</b>	<b>N</b>			
Paint/Coating		<b>5</b>	<b>5</b>			
Abutment Stability		<b>5</b>	<b>5</b>			
Scour/Erosion		<b>3</b>	<b>4</b>	Large gullies at A1 ~0.6m x 1m x 5m long.		
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )					Concrete on steel.	
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>				Cap ends and faces stained.		
<b>Now</b>						
Bearing Seats/Caps/Corbels		<b>6</b>	<b>6</b>			
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>600</b> )						
(Width(mm) : <b>550</b> )						
(Total Number of Bearing Piles : <b>6:6</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Pier Shaft/Piles		<b>5</b>	<b>5</b>			
Greatest Height (m)		5.20				
Bracing/Struts/Sheathing		<b>6</b>	<b>6</b>			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		4	4	Rusting near ground level & @ South column, both piers. Outside surface flaking away.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		4	4	Scouring at pier 1 U/S - photo.
Debris (Y/N)	Yes			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				Vertical banks U/S @ bridge - photo. Road drainage creating erosion gully @ headslope.
(D/S Direction : <b>N</b> )				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)				Old piles in SB at piers, no problem.
Drift (Y/N)	Yes			
Slope Protection		3	4	
(Type : <b>NONE; NONE</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>3</b>	<b>4</b>	

