

Bridge Inspection											
Bridge File Number	76392 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1974/1974					Lot No.	2				
Bridge or Town Name	DEWINTON					Inspector Name	Jason Rusu				
Located Over	2:12 L1 28.668;2:12 R1 28.672					Inspector Class	BR CLS A				
Located On	2A:06 L1 5.929;2A:06 R1 5.919					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	08-Oct-2011				
Legal Land Location	NW SEC 21 TWP 21 RGE 29 W4M					Data Entry By	Erin Roberts				
Longitude, Latitude	-113:58:05, 50:47:55					Data Entry Date	17-Nov-2011				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Garry Roberts				
Contract Main. Area	CMA27					Review Date	09-Nov-2011				
Clear Roadway/Skew	14.9 / -11 deg. (LHF)					Dept. Reviewer Name	Tim Davies				
AADT/Year	25,750 / 2010 (A)					Dept. Review Date	21-Nov-2011				
Road Classification	RAU-213.4-120					Follow-Up By					
Detour Length (km)	3										
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 Vert. Clearance Posting (m)			UNDER: 2 L1 5.3m, 2 R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.7	In Advance (Y/N)	Yes
Remarks												
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)	No											
Remarks												
Other Sign Types			HWY I.D., INFO.									

Utilities (Located at)												
Utility Attachments												
Telephone	@ EAST R/W					Gas						
Power						Municipal						
Others	Light standards					Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Limited sight distances, ramps on ends
Vertical Alignment		5	5	
Roadway Width (m)	14.900			Missing 4 splice bolts at NW and NE
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Not thriebeam
Guardrail		4	4	
Length (m)	42.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN ENDS			
Drainage		6	6	
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)						
Special Features						
Special Feature			7	Underslung Brackets		
(Type :)		Lateral post tension strands at deck level. Visible only at ends				
Special Feature			7	Ends look good.		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface		6	6	Narrow keyway longitudinal crackng @ SBL		
(Material Type : CONCRETE)						
(Thickness(mm) : 100)						
Lateral Connection Problem (Y/N)	Yes					
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		6	3	FINGERS SIT UP 5mm at WBL Fingers dirt filled 4 broken welds @SBL, Minimum 2 at NBL		
Temperature (deg. C)		10				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC);FINGER PLATES)		Gland joint @ pier & North abut				
(Fixed Type :)						
Gap Size (mm)		Gap Location				
90		S ABUT				
80		C. pier				
71		N. abut				
Deck Drainage		7	7			
Drains Clogged (Y/N)		No				
Curbs/Median		5	5	Light scaling @ NW, minor corrosion stains.		
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail		7	7	Approx. 20% nuts not fully engaged		
(Type : STEEL BRIDGE TUBE)						
Bridge Rail Posts		3	3	Damaged to 3 posts at median box beam		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		7	7			
(Type :)						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 2 Spans, Lengths(m): 38.1-38.1, A-Ident Number:)					
Girders		4	4	Typical cracking extends through top chamber into deck underside at girder ends. Wide flexrail cu at S2G1 West exterior is corrosion stained @ bottom. Medium cracking longitudinally est. 2.0 from end. 200mm from bottom of girder on all girders.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	0				
(Number Of Girders : 20)					
Diaphragms/Cross Frame		5	5	Some diaphragms cracked, spalled & corrosion stained @ bottom @ exteriors.Wide vertical cracks @ patch @ West exterior @ North span.	
Bearings		6	6		
Temperature (deg. C)	10				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	5	G-4 N span corrosion stains @ deck underside from low cover bar - from West.	
Stains (Percent Area)	5				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		5	4		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
Backwalls/Breastwalls		6	6		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		4	4	Isolated peeling of pigmented sealer	
Abutment Stability		8	8		
Scour/Erosion		X	X		
Piers/Bents					
(Type : PIER-SOLID)				Some wide crack @ East side CORROSION STAINS @ North & South SIDE of cap minor	
Bearing Seats/Caps		6	6		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0)				Massive pier shaft	
Pier Shaft/Piles		8	8		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		5	5		
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Retaining wall @ North abut
Traffic Safety Features		6	4	Accident damage at SW
Type	GUARDRAIL			
Slope Protection (Type :)		6	6	Some settlement - pulled away 100mm and down 100mm @ South Sealed with cold mix
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

