

Bridge Inspection											
Bridge File Number	76565 -2 Bridge					Form Type	PSR				
Year Built/Year Supstr	1984/1984					Lot No.	1				
Bridge or Town Name	BLACKFALDS					Inspector Name	Owen Salava				
Located Over	2:26 L1 7.003;2:26 R1 6.994					Inspector Class	BR CLS A				
Located On	597:02 C1 0.305					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	20-Mar-2013				
Legal Land Location	NE SEC 21 TWP 39 RGE 27 W4M					Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:49:17, 52:22:29					Data Entry Date	30-Mar-2013				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien				
Contract Main. Area	CMA19					Review Date	24-Mar-2013				
Clear Roadway/Skew	13.4 / -11 deg. (LHF)					Dept. Reviewer Name	Chris Black				
AADT/Year	5,260 / 2011 (A)					Dept. Review Date	09-Apr-2013				
Road Classification	RAU-213.4-120					Follow-Up By					
Detour Length (km)	2										
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)			UNDER: 2 L1 5.4m, 2 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.6	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	Not required.							
Other Sign Types	Route, Merge							

Utilities (Located at)										
Utility Attachments										
Telephone	NW				Gas					
Power	Light standard all 4 corners.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curves @ both ends.
Vertical Alignment		7	7	Vertical crest curve.
Roadway Width (m)	13.500			
Approach Bump		5	6	
Guardrail (Y/N)	Yes			Missing transition nut @ SW corner - photo.
Guardrail		3	4	
Length (m)	99.000			
Current Standard (Y/N)	No			Not thrie beam.
Termination Type	Turn Down			
Drainage		5	5	(Small erosion holes @ SE, NE corners - photos. Minor spalled curbs on drain troughs NE/SE. 15Sep2011) - Snow covered.
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 2 Spans, Lengths(m): 40-40, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	10.0	0.0	0.0	0.0	
Wearing Surface			6	6	Chip coat on HDC o/l. Transverse cracks 2.5-4.0m o/c.
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	4	A2 paving lip cracked. Stains at SE bearing seat indicate possile leaking wetting seat and girder ends, source unknown. Small pothole in W paving lip in wheelpath of SBL.
Temperature (deg. C)		-4			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
125		E. abut			
113		W. abut			
Deck Drainage			7	5	No drains. Stains and girder ends are wet at SE corner.
Drains Clogged (Y/N)					
Curbs/Median			6	6	Light scaling 10% of top.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			8	8	Several post grout pads have started to deteriorate, still functioning.
(Type : <b>GALVANIZED STEEL TUBE BEAM TYPE 1</b> )					
Bridge Rail Posts		6	6		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		7	7		
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	1	
Girders			4	3	Small chip in S2G12 from high load damage. Horiz. hairline cracks extending into mid web near end blocks. Cracks in end block & webs @ 1 to 4m from end. 0.3 to 0.4mm wide, all units. 900mm x 0.4mm wide crack within 1/4 of bottom of web N fascia girder @ W span @ S side marked & dated. This crack typical inside & fascia of all exterior girders @ abuts. S2G1 apparent HLD wrapped with fabric.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>24</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 40-40, A-Ident Number: )				
Diaphragms/Cross Frame		8	8	
Bearings		8	8	Expansion - A1 & A2.
Temperature (deg. C)	-4			
(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		8	8	
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		9	7	Cracks under wingwalls.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		4	4	Tinted sealer peeling @ wingwalls.
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		7	7	
Traffic Safety Features		7	7	Median side only around pier.
Type	Guardrail			
Slope Protection		4	4	40mm separation @ abut - sealed with expanding foam. (Small holes @ SE/NE with small voids @ SE/NE. Some water getting under slabs. 15Sep2011) - Unable to confirm, carry rating forward.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		6	6	(Small erosion hole at SE under slope protection. 15Sep2011).
<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							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Patch paving lip pothole; flood SE jnt to determine source of moisture then repair.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Install nut on transition bolt at SW.					
OTHER ACTION	2013	Complete S2G1 repair to HLD.					
OTHER ACTION	2013	Scrape and recoat wingwall sealer.					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.3/54.7</b>	Est. Repl. Yr	2051	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor crack in girders, fascia at NW, marked & dated.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	20-Dec-2014		Previous Inspection Date	15-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							