

Bridge Inspection							
Bridge File Number	77175 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1970/1970			Lot No.	2		
Bridge or Town Name	ENTRANCE			Inspector Name	Shane Hall		
Located Over	LITTLE BERLAND RIVER, 8.11.118.12, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	40:32 C1 5.573			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Oct-2012		
Legal Land Location	SW SEC 21 TWP 54 RGE 2 W6M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-118:14:28, 53:40:41			Data Entry Date	26-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA05			Review Date	19-Nov-2012		
Clear Roadway/Skew	10.4 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	1,090 / 2011 (A)			Dept. Review Date	06-Dec-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	420						
Allowable Load (t):	Single	CS 142 GIRDER	Semi	CS2 55	Train	CS3 67 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	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	SB	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 to standard height, installed on guardrail posts.						
Other Sign Types							

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power			Municipal
Others	WSC guage station @ NE.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve at top of North hill limiting sight distance. In sag curve. No passing NB.
Vertical Alignment		6	6	
Roadway Width (m)	8.600			Insufficient length and posts. Minor creases in numerous locations but functioning. SE & NW - 41.6m; SW & NE - 34.0m. NE splice incorrect lap - photo. SW-incorrect lap and turndown end not connected to post.-photo
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	34.200			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		N	6	
Approach Road General Rating		6	6	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FC, 1 Spans, Lengths(m): 24.4, A-Ident Number:)						
Special Features						
Special Feature		8	8	Epoxy coated strand.		
(Type : EXT LATER POST TENS)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	40	0	0	0		
Now						
Wearing Surface		7	4	Chip seal on Fibre reinforced silica fume concrete. Cracks have been sealed with a polymer. Longitudinal cracks over girder connections. Lat. con problem, not confirmed. Cracks not reflecting through chipseal. Large patch of chipseal worn off at SE corner.-photo		
(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		5	5	Two 75mm holes cut through finger plate in south abutment finger joint. Finger plates slap under traffic.		
Temperature (deg. C)	4					
(Expansion Type : FINGER PLATES)						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)	Gap Location					
45	N. abut					
70	S. abut					
Deck Drainage		N	5	(Bird bath @ SE, outside of driving lane. 17/Aug/2005) No deck drains.		
Drains Clogged (Y/N)	No					
Curbs/Median		N	4	Plow scrapes. NE approach curb has severe scaling and delam.-photo		
(Curb Type : Standard)						
Scaling (Percent Area)	30					
Bridge Rail		7	4	3 splice bolts missing in East and West rail.(6 total)-photo		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		7	7	Bottom of all post base plates are rusting.		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		N	6			
(Type : GALVANIZED)						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	G6 local spall exposing corroding stirrup & strand, painted - photos.	
Last	0	0	0	3		
Now				3		
Girders		3	3	Typical FC chamfer cracks. G4 with efflorescence. G1,G2,G6,G7 have numerous rust spots on bottom of legs due to low cover. Vertical crack in end of G7 @ A1 with rust stain. - photo. Medium longitudinal cracking G1, G2, G7 up to 450mm long with rust, due to low cover on stirrups. G1 vertical crack @ S end 100mm from end with no corrosion.		
Cracking (Y/N)	Yes					
Spalling (Percent Area)	2					
(Number Of Girders : 7)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 1 Spans, Lengths(m): 24.4, A-Ident Number:)				
Diaphragms/Cross Frame		4	4	The end diaphragms on both curb girders have bottom spalls and exposed rebar. Several other end diaphragms cracked.
Bearings		4	4	Slightly deformed but functioning. A2G7W bearing shoe plate corroded causing stainless steel plate to cup.
Temperature (deg. C)	4			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	2			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Horizontal crack under A1G1/G2 bearing.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	Cracked & efflorescence stained @ corners.
Wingwalls		5	4	SE wingwall is scaling/spalling.-photo SE wingwall has 300x500 spall.-photo
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		4	4	A1, A2 fill settled under abutment concrete.
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Bend 100m U/S.
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	Well armoured Class II/III.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	SW corner.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Install 6 missing splice bolts.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Patch worn chipseal areas.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair guardrail.					
OTHER ACTION	2013	Partial depth repair for curbs/wingwall.					
OTHER ACTION	2013	Reset hazard markers to meet standard.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/38.9	Sufficiency Rating (Last/Now) (%)	51.6/51.4	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking.		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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	17-Jul-2014		Previous Inspection Date	24-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							