

Bridge Inspection													
Bridge File Number	75340 S-2 Bridge					Form Type	PSR						
Year Built/Year Supstr	1962/1962					Lot No.	2						
Bridge or Town Name	LACOMBE					Inspector Name	Jason Saly						
Located Over	12:08 L1 20.874;12:08 R1 20.874					Inspector Class	BR CLS A						
Located On	2:26 L1 17.476					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	20-Mar-2013						
Legal Land Location	NW SEC 23 TWP 40 RGE 27 W4M					Data Entry By	Marcia Chavez						
Longitude, Latitude	-113:47:07, 52:27:47					Data Entry Date	01-Apr-2013						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien						
Contract Main. Area	CMA19					Review Date	26-Mar-2013						
Clear Roadway/Skew	15.9 / 31 deg. (RHF)					Dept. Reviewer Name	Chris Black						
AADT/Year	30,370 / 2011 (A)					Dept. Review Date	09-Apr-2013						
Road Classification	RFD-412.4-130					Follow-Up By							
Detour Length (km)	1												
Allowable Load (t):	Single	CS1 45 GIRDER			Semi	CS2 53 GIRDER			Train	CS3 66 GIRDER		----> On Critical Spans ---->Critical Member	
Design Loading:	HS20						----> Primary Span						
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 12 L1 5.5m, 12 R1 5.5m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	EB	On Bridge (m)	5.5	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)		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	Route												
Utilities (Located at)													
Utility Attachments													
Telephone	Yes - no marker.					Gas							
Power						Municipal							
Others	Street lights along Hwy 12.					Problem (Y/N)			No				
Remarks	Power to lights on piers.												
Approach Road													
				Last	Now	Explanation of Condition							
Horizontal Alignment				9	9	Typical overpass alignments.							
Vertical Alignment				8	8								
Roadway Width (m)	15.500												
Approach Bump				8	7								
Guardrail (Y/N)	Yes												
Guardrail				6	6								
Length (m)	60.000												
Current Standard (Y/N)	Yes												
Termination Type	Turn Down												
Drainage				4	4	(Minor erosion @ SE corner - photo. 15Sep2011) - Snow covered, rating carried forward. Minor erosion along NW wingwall.							
Approach Road General Rating				8	8								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 15.2-29-15.2, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(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	5	(Random narrow longitudinal / transverse cracking. 27/Jan/2007) Chip sealed - minor loss of chips along jnts. SF concrete o/l placed in 1995; chip seal coat placed in 2007. Prior to chip seal placement o/l had 366mof cracking.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			5	3	Missing plow guards, 5 @ A1, 4 @ P1, 3 @ P2 & 10 @ A2 - (not required). There is water leaking onto the N abut & the N pier.
Temperature (deg. C)		0			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
79		N. abut			
77		N. pier			
76		S. pier			
78		S. abut			
Deck Drainage			3	3	NW deck drain broken. Drainage from retrofit drain tubes causing staining & cracking of exterior girders. Pier & abut jnts leaking.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	S3 East curb spalled near North abutment. Some salt leaching on underside of curb @ pier joints. Typical vertical curb cracks @ post anchor bolts. Partially snow & dirt covered.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			5	5	Retrofit rail installed. Panels 1W, 2W, 8W and 11W have minor damage, ok. (4 posts have deteriorated grout pads & most of the material is missing, East side. 15Sep2011) - Base plates mostly snow covered.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts			5	N	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
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 : PO, 3 Spans, Lengths(m): 15.2-29-15.2, A-Ident Number:)				
Girders		4	4	S ends of W fascia girders @ S2,3 have corrosion staining in webs, no cracks. S end S1G1 has delam crack top flange. Cracking top flange of S3G1,8. Vertical end girder cracks S2G1 at P2 & S1G1, S2G1 at P1.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 26)				
Diaphragms/Cross Frame		5	5	Corrosion pitting of 25% to 75% of all.
Bearings		4	4	Corrosion pitting on exterior bearings @ piers 75%. Remainder 50%.
Temperature (deg. C)	0			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Isolated corrosion staining due to low cover. End blocks under joints 40% spalled or cracked. Narrow to medium width cracks. Some stains look wet.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	5	Horizontal cracking in the N abut.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	5	NE cracked at base, possibly from jammed girder.
Piles		N	N	Buried.
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		X	4	Minor erosion along SE & NW wingwalls - (SE from 10May2012).
Piers/Bents				
(Type : PIER-COLUMN)				Delamination crack at east end corner pier 1 with rebar spalls and rust stains on underside. Stained from leaking joints. Cracking staining at W end of P2.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				3 columns each pier.
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		9	9	Concrete retaining wall at base of slopes. Concrete median.
Type	Retaining Wall / Median			
Slope Protection		5	5	80mm gap between North abutment & slope protection. 60mm gap between South abutment & slope protection & settled 190. Top of both slope protection have settled & draining water under abutment seat creating void - patched.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013	Patch curb.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair/replace gland from A2P2 jnts.					
RESET/ PAINT BEARINGS	2013	Clean or replace bearings at next rehab.					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Fill SE erosion, 1m3 pitrun, if not yet done.					
OTHER ACTION	2013	Reinstall NW deck drain.					
OTHER ACTION	2013	Extend weep tube.					
OTHER ACTION	2013	Patch S1G1 delamination.					
OTHER ACTION	2013	Replace top of concrete slope protection to positive drain away from abutment seat.					
OTHER ACTION	2013	Seal girder cracks with epoxy.					
OTHER ACTION	2013	Seal cracks in pier caps.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	53.0/52.9	Est. Repl. Yr	2023	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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			