

Bridge Inspection											
Bridge File Number	76650 S-2 Bridge					Form Type	PSR				
Year Built/Year Supstr	1974/1974					Lot No.	1				
Bridge or Town Name	CLOVERBAR 09					Inspector Name	Kris Bosters				
Located Over	RAMP 88-1 A;CPR					Inspector Class	BR CLS A				
Located On	216:04 R1 0.787					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	04-Apr-2011				
Legal Land Location	NW SEC 9 TWP 53 RGE 23 W4M					Data Entry By	Theresa Lacusta				
Longitude, Latitude	-113:20:41, 53:33:53					Data Entry Date	18-Apr-2011				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Arnold Assenheimer				
Contract Main. Area	CMA09					Review Date	11-Apr-2011				
Clear Roadway/Skew	17.1 / 48 deg. (RHF)					Dept. Reviewer Name	Brent Herrick				
AADT/Year	42,840 / 2009 (A)					Dept. Review Date	19-Apr-2011				
Road Classification						Follow-Up By					
Detour Length (km)	1										
Allowable Load (t):	Single	CS1 45 GIRDER			Semi	CS2 56 GIRDER		Train	CS3 67 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 88-1-A 6.7m									
Posted Vertical Clearance (Y/N)			No									
Posted:	Lane	NB	On Bridge (m)	6.6	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)	Yes
Remarks		Posted on NB structure.										
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)			At Bridge (Y/N)				
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)		No										
Remarks		Not required.										
Other Sign Types		Warning, Information, Speed, Route.										

Utilities (Located at)				
Utility Attachments				
Telephone			Gas	Pipeline under bridge.
Power			Municipal	
Others	Lights standards in area.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Typical grade separation.
Vertical Alignment		7	7	
Roadway Width (m)	17.500			Dip in approach slab @ NE corner.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Missing guardrail to bridgerail connector bolts SW & NE & NW. (photo) 3 split posts SW, split post NW-posts.
Guardrail		4	4	
Length (m)	99.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 4 Spans, Lengths(m): 16.8-28-25.9-15.2, A-Ident Number:)					
Special Features					
Special Feature		8	8	Underslung beams	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Ice/gravel along curbs
Last	0	0	0	0	
Now	15.0	0.0	0.0	0.0	
Wearing Surface			6	5	Chipseal waering at joints.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			6	4	100mmx500mm pot hole SBL S abutments.-photo
Deck Joints			3	3	NE corner of abutment cover plate damaged by plow. Missing 1 plow guard on pier 1 & 2. Based on stains, scaling and delam cks on P1,P2, &p3. It appears that joints over piers are leaking.(photo) All measured @ E. shoulder. Paving lip spalled and delaminated at both abutments.-photo
Temperature (deg. C)		8			
(Expansion Type : FINGER PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : COMPRESSION SEAL (ACME SEALS))					
Gap Size (mm)		Gap Location			
18		North abutment-Exp.			
70		Pier 3			
73		Pier 2			
78		Pier 1			
30		South abutment-exp.			
Deck Drainage			5	5	(Ponding along west curb S2. Insufficient drains. AUG 25, 2007)
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	No drains. 4 spalls on West curb, 2 on top, 1 outside face @ P3, one o/s face of P2.(photos)
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			8	8	
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now					
Girders			5	5	Typical chamfer cracks.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 44)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 4 Spans, Lengths(m): 16.8-28-25.9-15.2, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	
Bearings		6	8	
Temperature (deg. C)	8			
(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)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	4	Delamination cracks under G9,10,11 N abutment.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		7	7	
Abutment Stability		5	5	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		3	3	Delam crack both ends P1 & P2 East end - photos. Delam ck. under 7 Of 12 bearing locations @ P1. Delam ck. @ underside of P1 @ W. end.(photo) Narrow vertical ck running top to wide delam ck. W. end of P2(photo).
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4:4)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Pier caps stained from water leakage.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		3	3	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		7	4	Broken post SW.-photo
Type	Guardrail			
Slope Protection		5	5	
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		5	5	
Grade Separation General Rating		5	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2011	Repair spalls.					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Plow deflectors. Investigate/confirm deck joint leakage @ P1, P2, P3.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Repair delaminations in pier caps @ P1, P2.					
OTHER ACTION	2011	Replace missing guardrail to bridgerail connection bolts.					
OTHER ACTION	2011	Repair cracked approach rail posts.					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	51.2/48.2	Est. Repl. Yr	2035	Maint. Req'd. (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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	04-Jan-2013		Previous Inspection Date	24-Jun-2009			
Inspection Cycle (Default) (months)	21						
Comment							