

Bridge Inspection									
Bridge File Number	76649 W-1 Bridge				Form Type	SG			
Year Built/Year Supstr	1969/1969				Lot No.	2			
Bridge or Town Name	CLOVERBAR 07				Inspector Name	Shane Hall			
Located Over	RAMP 88-1 A				Inspector Class	BR CLS A			
Located On	RAMP 88-1 J				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Sep-2010			
Legal Land Location	SE SEC 16 TWP 53 RGE 23 W4M				Data Entry By	Janie Assenheimer			
Longitude, Latitude	-113:19:32, 53:34:15				Data Entry Date	15-Oct-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA09				Review Date	29-Sep-2010			
Clear Roadway/Skew	7.3 / 51 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	11,000 / 2010 (E)				Dept. Review Date	26-Oct-2010			
Road Classification	RLU-208-100				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20				----> Primary Span				

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 88-1-A 5.2m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes
Remarks	Only S.B. traffic.											
Required Load Posting (t)	Single				Semi				Truck Train			
Posted Loading (t)	Single				Semi				Truck Train			
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)				At Bridge (Y/N)			
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 marker.											

Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others	Light standards in area.				Problem (Y/N)	No				
Remarks	Light standard columns rusting at splash zone.									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Right curve 100m off deck merge lane.				
Vertical Alignment			7	7					
Roadway Width (m)	7.300				Approach asphalt numerous large cracks, few pot holes.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Insufficient posts. Guardrail has separated from parapets SE (photo).				
Guardrail			4	4					
Length (m)	45.600								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			N	5					
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FR, 3 Spans, Lengths(m): 15.5-29-15.5, A-Ident Number: A0616-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	75					
Now	0.0	0.0	0.0	0.0		
Wearing Surface			N	4	Approx. 10% of chipseal worn off - majority along bridge centerline.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			N	3	West paving lip breaking up (photo). Gap @ west joint is 20mm @ North centerline 2mm @ south. Drain trough at west abut. rusted/failed (photo).	
Temperature (deg. C)		8				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
5		E. abutment				
20		W. abutment				
Deck Drainage			N	3	No drains. Drain trough on west abut. failed (photo).	
Drains Clogged (Y/N)						
Curbs/Median			N	4	Parging delaminating.	
(Curb Type : Standard)						
Scaling (Percent Area)		10				
Bridge Rail			7	7	Paint is peeling - 90% failed. Galvanizing is intact under paint.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			7	7		
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X	(High load damage. Repaired June 2006. South girder epoxy injected. Jan 6, 2009) Several high load scrapes. 12 girders. 4/span.	
Flange			6	6		
Web			7	7		
Stiffeners			7	7		
Splice			X	X		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FR, 3 Spans, Lengths(m): 15.5-29-15.5, A-Ident Number: A0616-01)				
Paint Condition		4	4	Flanges - some paint peeling showing primer on NW fascia. North fascia west span girder top coat is peeling, primary in good condition.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	4	Bearings almost fully extended @ SE & NW corners. One bearing on east abutment has bent bolts, G3. Pier bearing neoprene bulging. Neoprene under pier columns at base.
Temperature (deg. C)				
(Expansion Type : SLIDING PLATE)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	No			
Deck Underside		4	4	Old staining around weep tubes. Minor spalling along top flanges of exterior girders. Random narrow to medium transverse cracks with efflorescence. Numerous rust stains along south side. 300 x 300mm spall @ S1G1 (photo).
Stains (Percent Area)	10			
Span Alignment Problems				
Vertical (Y/N)	No			Skew pressures.
Horizontal (Y/N)	Yes			
Superstructure General Rating		4	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		4	4	Most peeled off.
Abutment Stability		5	5	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Steel frame bent on concrete pedestals, no cap.
Bearing Seats/Caps		X	X	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 4:4)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		5	5	Green.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Curve both ends.
Traffic Safety Features		3	6	Guardrail on west side only up to bridge.
Type	Guardrail/Light			
Slope Protection		4	4	Poor patch on east slope with some deterioration.
(Type : CONCRETE; CONCRETE)				
Bank Stability		5	5	
Drainage		5	5	
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2011	Patch paving lip at West joint.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Replace drain trough at west joint.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Attach flexbeam to SE parapet.					
OTHER ACTION	2011	Clean debris off of west abut. seat.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/44.4	Sufficiency Rating (Last/Now) (%)	61.9/47.1	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor deck joints. Monitor pier bearing deformation. Monitor spalling of deck underside.		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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	24-Jun-2012		Previous Inspection Date	06-Jan-2009			
Inspection Cycle (Default) (months)	21						
Comment							