

Bridge Inspection										
Bridge File Number	76646 E-1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1968/1968				Lot No.	2				
Bridge or Town Name	CLOVERBAR 04				Inspector Name	Wade Nanninga				
Located Over	25102:02 R1 0.197;25102:02 L1 0.199				Inspector Class	BR CLS A				
Located On	16:18 R1 5.709				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	21-Aug-2012				
Legal Land Location	NW SEC 12 TWP 53 RGE 23 W4M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-113:16:15, 53:34:12				Data Entry Date	28-Aug-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA09				Review Date	22-Aug-2012				
Clear Roadway/Skew	17.1 /				Dept. Reviewer Name	Brent Herrick				
AADT/Year	47,380 / 2011 (A)				Dept. Review Date	30-Aug-2012				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20				----> Primary Span					

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: 25102 L1 5.2m, 25102 R1 5.2m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	In Advance (Y/N)	Yes
Remarks	300m in advance. SB vertical clearance sign posted on WB structure.										
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)		In Advance (Y/N)		At Bridge (Y/N)				
Remarks	Not required. "Ramp 30 kph".										
Hazard Marker At Bridge (Y/N)	No										
Remarks	Not required.										
Other Sign Types	Information.										

Utilities (Located at)											
Utility Attachments											
Telephone	South of r/w.				Gas						
Power	7 wires overhead, East end of bridge.				Municipal						
Others					Problem (Y/N)	No					
Remarks											

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Off ramp to east.
Vertical Alignment		8	8	1% grade.
				20.6m on east end, road goes to 3 lanes with off ramp.
				No guardrail on East end of bridge.
Roadway Width (m)	13.000			1 missing & 1 sheared bolt at G.R./B.R. connection @ NW corner (photo). 1 missing bolt at G.R./B.R. connection @ SW corner (photo).
Approach Bump		6	5	

Approach Road						
		Last	Now	Explanation of Condition		
Guardrail (Y/N)	Yes					
Guardrail		4	4			
Length (m)	99.000					
Current Standard (Y/N)	Yes					
Termination Type	crash end					
Drainage		7	7			
Approach Road General Rating		8	8			
Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-16.8-10.7, 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						
Wearing Surface			6	6		
(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		N	4	Chipsealed over @ piers. Abutments have 10mm gap to approach slab. with buffer angles.		
Temperature (deg. C)	30					
(Expansion Type :)						
(Fixed Type : COMPRESSION SEAL (ACME SEALS))						
Gap Size (mm)	Gap Location					
Deck Drainage		7	7	No drains.		
Drains Clogged (Y/N)						
Curbs/Median		7	7	Hairline vertical cracking typical @ 600mm		
(Curb Type : Standard)						
Scaling (Percent Area)	1					
Bridge Rail		7	7	Dirty.		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		7	7			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		7	7			
(Type : GALVANIZED)						

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-16.8-10.7, A-Ident Number:)						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Girders				7	4	Some old stains between units. Slight sag in exterior girders, minor. Bridge widens to East. Cracks in poured connection @ fascia over piers.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 66)						
Diaphragms/Cross Frame				X	X	
Bearings				7	7	
Temperature (deg. C)		30				
(Expansion Type :)						
(Fixed Type : NEOPRENE STRIP BEARING)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				N	N	
Stains (Percent Area)		0				
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				7	4	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
Bearing Seats/Caps				7	7	
(Type : CONCRETE)						
Backwalls/Breastwalls				X	X	
Wingwalls				7	7	
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				8	8	
Scour/Erosion				X	7	
Piers/Bents						
(Type : PIER-COLUMN)						
Bearing Seats/Caps				4	4	Rust stains & cracking @ South end of both piers. Delam crack over column 3 West pier.
(Type : CONCRETE)						
(Total Number of Bearing Piles : 6:6)						
Pier Shaft/Piles				4	4	Medium crack column 3 & 5 west pier. 300mm x 150mm spall at base of column 4 in west pier (photo). Spall at base of column 5 in east pier (photo). Wide vert. crack to full length of column 1 in east pier (photo).
Bracing/Struts/Sheathing				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Nose Plate		X	X	
Paint/Coating		5	5	grey
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	Guardrail.
Type	Median/Concrete			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		5	6	
Grade Separation General Rating		5	6	

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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair pier column spalls.					
OTHER ACTION	2012	Replace missing connector bolt at SW corner and 2 @ NW corner.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/44.4	Sufficiency Rating (Last/Now) (%)	57.7/49.5	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor wide crack in pier column.		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	21-May-2014		Previous Inspection Date	23-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							