

Bridge Inspection									
Bridge File Number	76646 W-2 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 0.220;25102:02 L1 0.222				Inspector Class	BR CLS A			
Located On	16:18 L1 5.715				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	21-Aug-2012			
Legal Land Location	SW SEC 13 TWP 53 RGE 23 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:16:15, 53:34:13				Data Entry Date	05-Sep-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	18-Sep-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)												
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes
Remarks	NB posted on adjacent bridge.											
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 req'd											
Hazard Marker At Bridge (Y/N)	No											
Remarks	Not req'd											
Other Sign Types	Info											

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w				Gas				
Power	7 wires OH East end of bridge. 3 wires 15m North of bridge.				Municipal				
Others	Measuring station NW corner. (Weather)				Problem (Y/N)	No			
Remarks									

Approach Road					
			Last	Now	Explanation of Condition
Horizontal Alignment			8	8	Off ramp to NW.
Vertical Alignment			8	8	Road splits to 3 lanes - 20.3m on west end of bridge. No guardrail @ west end.
Roadway Width (m)	13.000				Wide crack at cl, 25mm drop from approach to approach slab.
Approach Bump			6	4	
Guardrail (Y/N)	Yes				Missing connection rail nut @ NE.
Guardrail			5	4	
Length (m)	91.000				
Current Standard (Y/N)	Yes				
Termination Type	Crash end				

Approach Road						
			Last	Now	Explanation of Condition	
Drainage			8	8		
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						
Now						
Wearing Surface			4	4	3mx3m area of chipseal missing in South lane @ E end.-photo No chipseal along curbs.	
(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			2	4	Chipsealed over piers. Abutments have 10mm gap 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			6	6	Vertical cracking @ 600mm intervals.	
(Curb Type : Standard)						
Scaling (Percent Area)		1				
Bridge Rail			5	5	Minor rail deflection @ NW.	
(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)						
Sidewalk			X	X		

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 10.7-16.8-10.7, A-Ident Number:)						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	SP3 G20 & G16 (G20 with corrosion stain) delam crack extending 0.1m from pier.	
Last						
Now				1		
Girders				5	3	Very minor honeycombing in S3G20. Rust stain & short crack S2, G15. Underside of girders are water stained between G14/15 & G16/17 @ center span, old stains. Few rust spots. Stain curb girder at North end pier 2. Chipped edge of SP2G9 Stained underside between S2-G16/17 . Wide vertical crack in poured connections over piers on outside fascia.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 66)						
Diaphragms/Cross Frame				X	X	
Bearings				7	7	(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL;REINFORCED PAD BEARING;NEOPRENE STRIP BEARING)
Temperature (deg. C)		30				
(Expansion Type :)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				N	N	
Stains (Percent Area)		2				
Span Alignment Problems						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
Superstructure General Rating				5	3	
Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
Bearing Seats/Caps				6	6	(Type : CONCRETE)
Backwalls/Breastwalls				X	N	
Wingwalls				6	6	
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				8	8	
Scour/Erosion				X	4	Gap between backwall and slope protection.
Piers/Bents						
(Type : PIER-COLUMN)						
Bearing Seats/Caps				6	6	Several rust spots.
(Type : CONCRETE)						
(Total Number of Bearing Piles : 6:6)						Vertical cracks at base of all pier piles. Pier 1, Pile 3 has wide vert. crack and deteriorating concrete.-photo
Pier Shaft/Piles				4	4	
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		5	5	Grey
(Colour Description :)				
(Colour Code :)				
Pier Stability		6	6	
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	Guardrail on shoulders.
Traffic Safety Features		5	5	Gap between backwall & concrete slope protection East side.
Type	Median / Concrete			
Slope Protection		4	4	(Type : CONCRETE; CONCRETE)
Bank Stability		5	5	
Drainage		4	4	Water ponds at West curb.-photo Splashes onto pier piles.
Grade Separation General Rating		4	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							
PATCH DECK	2012	Chipseal patch					
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	Improve drainage under bridge.					
OTHER ACTION	2012	Add guardrail nut @ NE.					
OTHER ACTION	2012	Seal crack @ approaches.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/38.9	Sufficiency Rating (Last/Now) (%)	50.0/43.9	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor pier piles. Monitor girder cracks.		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							