

Bridge Inspection									
Bridge File Number	73908 W-2 Bridge					Form Type	PSR		
Year Built/Year Supstr	1971/1971					Lot No.	2		
Bridge or Town Name	CALGARY - CPR OVERPASS ON 16 AVENUE NORTH					Inspector Name	Garry Roberts		
						Inspector Class	BR CLS A		
Located Over	CPR;NOSE CREEK, 2.12.32, WATERCRS-ST					Assistant Name			
						Assistant Class			
Located On	1:09 L1 19.068					Inspection Date	03-Dec-2012		
Water Body Cl./Year						Data Entry By	Lauren Korte		
Navigabil. Cl./Year						Data Entry Date	11-Jan-2013		
Legal Land Location	SE SEC 26 TWP 24 RGE 1 W5M					Reviewer Name	Tom Carey		
Longitude, Latitude	-114:01:52, 51:04:02					Review Date	02-Jan-2013		
Road Authority	Alberta Transportation (AIT)					Dept. Reviewer Name	Tim Davies		
Contract Main. Area	UNDEFINED CMA					Dept. Review Date	22-Jan-2013		
Clear Roadway/Skew	15.2 /					Follow-Up By			
AADT/Year	50,000 / 2007 (E)								
Road Classification	RLU-208-100								
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)												
Posted Vertical Clearance (Y/N)					No							
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not Required.											
Required Load Posting (t)			Single		Semi		Truck Train					
Posted Loading (t)			Single	30.0	Semi	47.0	Truck Train	63.0				
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)					
Posted:	Lane	WB	At Junction (Y/N)	Yes	In Advance (Y/N)	No	At Bridge (Y/N)	No				
Remarks	Junction is 100m from bridge.											
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		Route, 60km/hr, 50km/hr Ramp.										

Utilities (Located at)									
Utility Attachments	GAS UTILITIES-GAS LINE; TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE								
Telephone	Under span #2.					Gas			
Power	7 wire @ W & 11 wires under West span.					Municipal	Manhole @ SW.		
Others	Light standard.					Problem (Y/N)	No		
Remarks									

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment				5	5	Ramps & Controlled intersection to West.			
Vertical Alignment				6	6	B4307.			
Roadway Width (m)		15.000				Concrete barriers at all corners. Spalled at 2 locations at NW.			
Approach Bump				6	6				
Guardrail (Y/N)		Yes							
Guardrail				6	4				
Length (m)		65.000							
Current Standard (Y/N)		Yes							
Termination Type		TURNDOWN							
Drainage				3	3	Eroding at NE trough drain.			

Approach Road					
			Last	Now	Explanation of Condition
Approach Road General Rating			5	5	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : PJ, 4 Spans, Lengths(m): 22.5-27.6-27.6-21.5, A-Ident Number:)					
Special Features					
Special Feature				X	
(Type :)					
Special Feature				X	
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	10% snow covered.
Last	0	0	0	0	
Now	10.0	0.0	0.0	0.0	
Wearing Surface			8	7	PMA.
(Material Type : POLYMER MODIFIED ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			8	8	
Deck Joints			8	8	
Temperature (deg. C)		-11			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
90		East abut			
90		West abut			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			6	4	Several spalls at plastic post bases at North parapet most on inside.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Plastic Bridgerail @ North exterior parapet only.
(Type : BRIDGE TUBE;PLASTIC BRIDGE RAIL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type :)					
Bridge Rail/Posts Coating			X	6	
(Type :)					
Sidewalk			3	3	Cracks/corrosion throughout, West areas repaired. 3.5 X 0.3m long spall at East end with 40mm heave.
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 : PJ, 4 Spans, Lengths(m): 22.5-27.6-27.6-21.5, A-Ident Number:)				
Girders		4	4	Isolated corrosion @ NE & NW fascia girders. Corrosion @ bottoms of North fascia girder @ ctr pier.
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : 6)				
Diaphragms/Cross Frame		7	7	
Bearings		6	6	Integral @ center pier. P2 and 3 bearings are under diaphragms. Minor corrosion @ both abuts and slight delamination of teflon sliders at AB.
Temperature (deg. C)	-11			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : POT BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Corrosion @ NE & NW. Deck underside rates "7" other than these areas.
Stains (Percent Area)	2			
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	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		8	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	Massive piers.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		8	8	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Nose creek under Sp.3.
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	6	Natural with some rock.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	
Grade Separation				
Road Alignment		7	7	Pedway and CPR under Sp.2.
Traffic Safety Features		7	7	
Type	Fencing			
Slope Protection		7	7	
(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							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	5m^3 pitrun at NE.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair sidewalk spall approx 1.5m2.					
OTHER ACTION	2013	Repair sidewalk parapet spalls approx 3m2.					
OTHER ACTION	2013	Investigate girder corrosion and repair as required.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.3/62.3	Est. Repl. Yr	2045	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	03-Mar-2016		Previous Inspection Date	12-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							