

Bridge Inspection										
Bridge File Number	78895 S-2 Bridge					Form Type	SG			
Year Built/Year Supstr	1980/1980					Lot No.	4			
Bridge or Town Name	CALGARY - CPR AND CNR OVERPASS, OGDEN ROAD					Inspector Name	Garry Roberts			
						Inspector Class	BR CLS A			
Located Over	OGDEN ROAD;CNR;WATERCOURSE, WATERCRS-NI					Assistant Name				
						Assistant Class				
Located On	2:15 L1 28.138					Inspection Date	23-Jan-2013			
Water Body Cl./Year						Data Entry By	Lauren Korte			
Navigabil. Cl./Year						Data Entry Date	11-Feb-2013			
Legal Land Location	SE SEC 1 TWP 24 RGE 1 W5M					Reviewer Name	Tom Carey			
Longitude, Latitude	-114:00:40, 51:00:36					Review Date	29-Jan-2013			
Road Authority	Alberta Transportation (AIT)					Dept. Reviewer Name	Tim Davies			
Contract Main. Area	DEERFOOT/STONE Y					Dept. Review Date	21-Feb-2013			
Clear Roadway/Skew	14.3 /					Follow-Up By				
AADT/Year	120,330 / 2011 (A)									
Road Classification	RFD-616.6-130									
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	MS23								----> Primary Span	

Posting Information													
Required Vert. Clearance Posting (m)													
Posted Vertical Clearance (Y/N)					No								
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No	
Remarks	Not required.												
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			BRIDGE ICES.										

Utilities (Located at)				
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE			
Telephone	At NE & SE & under span 3.		Gas	
Power	1W 300m West.		Municipal	Manhole @ SE approach.
Others	Light standards.		Problem (Y/N)	No
Remarks				

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves at both ends. Grade down from North. B3511B
Vertical Alignment		5	5	
Roadway Width (m)	15.000			Recast in 2010.  Not thriebeam.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	30.000			
Current Standard (Y/N)	No			
Termination Type	TURNDOWN			
Drainage		7	7	

Approach Road					
			Last	Now	Explanation of Condition
<b>Approach Road General Rating</b>			5	5	
Superstructure					
Bridge Component			Last	Now	Explanation of Condition
(Primary Span : <b>WG, 5 Spans, Lengths(m): 40-54-54-54-48, A-Ident Number: )</b>					
Special Features					
Special Feature				X	
(Type : )					
Special Feature				X	
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	RWIS Sensor at Sp. 1 right lane.
<b>Last</b>	0	0	0	0	
<b>Now</b>	20.0	0.0	0.0	0.0	
Wearing Surface			8	8	New overlay in 2010. Viewed from 4 corners- no visible problems.
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Deck Top			N	N	
Deck Rideability			8	8	
Deck Joints			5	N	3 gland joint at North. 2 gland joint at South. Paving lip-broken at anchors - 10% cold patched 30mm-35mm at South joint. Not accessible due to high traffic volumes. Inspect and measure during full closure Spring 2013.
Temperature (deg. C)		-13			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
25		N abut			
35		S abut			
Deck Drainage			7	6	No drains.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	Parapet.
(Curb Type : <b>JERSEY/F SHAPE</b> )					
Scaling (Percent Area)		5			
Bridge Rail			X	X	
(Type : )					
Bridge Rail Posts			X	X	
(Type : )					
Bridge Rail/Posts Coating			X	X	
(Type : )					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	Steel tubs.
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			7	7	
Weld			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>WG, 5 Spans, Lengths(m): 40-54-54-54-48, A-Ident Number: )</b>				
Diaphragms/Cross Frame		7	7	
Paint Condition		X	X	Weathering steel.
(Colour Description : )				
(Colour Code : )				
Touchup Required (Y/N)	No			
Bearings		7	7	Only seen at piers. Recessed at South abut & too high to see @ North abut.
Temperature (deg. C)	5			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>POT BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	Corrosion cracks & efflorescence @ span 2 & 3 and isolated staining.
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		N	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		5	7	Pigmented Sealer.
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Minor spall at top of P.2- not affecting bearing.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				WID channel under Sp.4.
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>CONCRETE; CONCRETE</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	
<b>Grade Separation</b>				
Road Alignment		6	6	Curves both ends. Ogden Road under Sp.1 railroad at Sp.3 and 5.
Traffic Safety Features		7	7	At West pier only.
Type	GUARDRAIL			
Slope Protection		7	7	Gabion baskets and retaining wall at East.
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>6</b>	<b>6</b>	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/72.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.7/52.6</b>	Est. Repl. Yr	2046	Maint. Req. (Y/N)	No
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	23-Oct-2014		Previous Inspection Date	19-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							