

Bridge Inspection										
Bridge File Number	77801 W-1 Bridge					Form Type	CON			
Year Built/Year Supstr	1973/1973					Lot No.	2			
Bridge or Town Name	CALGARY - MEMORIAL DRIVE					Inspector Name	Garry Roberts			
Located Over	2:15 R1 33.190;2:15 L1 33.290					Inspector Class	BR CLS A			
Located On	10243:02 L1 0.086					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	16-Jan-2013			
Legal Land Location	NW SEC 13 TWP 24 RGE 1 W5M					Data Entry By	Kelsey Roberts			
Longitude, Latitude	-114:01:06, 51:02:57					Data Entry Date	02-Feb-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONEYP					Review Date	22-Jan-2013			
Clear Roadway/Skew	15 /					Dept. Reviewer Name	Tim Davies			
AADT/Year	49,000 / 2001 (E)					Dept. Review Date	04-Feb-2013			
Road Classification	RLU-208-100					Follow-Up By				
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62		----> On Critical Spans ---->Critical Member
Design Loading:	HS25									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.4m, 2 R1 5.4m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	No
Remarks		NB posting on 77802 E at 6.5										
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)		No		In Advance (Y/N)		No		At Bridge (Y/N) Yes	
Remarks		W/B traffic only										
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		80KM/HR, 50KM/HR at RAMP ROUTE										

Utilities (Located at)				
Utility Attachments	OTHER UTILITIES-OTHER LINES; POWER UTILITIES-POWER LINE			
Telephone	In area		Gas	
Power	Conduits at both abut		Municipal	Manhole at SE, East and West approach
Others	Underside deck lighting and overhead		Problem (Y/N)	Yes
Remarks		Broken lens at NE		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Curves and controlled intersections SE and West. B2132 Bridge on curve & superelevation 15m at East- widens to 20m at West estimate
Vertical Alignment		5	5	
Roadway Width (m)	20.000			Concrete parapets @ other corners 35mm long. Cracked and broken at SE.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		3	3	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNDOWN			
Drainage		7	7	
Approach Road General Rating		5	5	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CV, 2 Spans, Lengths(m): 32.6-37.8, A-Ident Number:)					
Special Features					
Special Feature			6	Sign bridge attached to exterior parapets. Large signs removed and only directional arrows so not definition sign bridge (<4m2)	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	30.0	0.0	0.0	0.0	
Wearing Surface			5	5	25mm rutting at isolated areas - left lane.
(Material Type : Latex Modified Asphalt)					
(Thickness(mm) : 50)					
Deck Top			N	N	Paved
Deck Rideability			5	5	
Deck Joints			6	4	2 minor spalls at A2 paving lip are patched with ACP
Temperature (deg. C)		1			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
55		E abut			
100		W abut			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Isolated areas of cracks & spalls SW parapet has been patched is hit and broken again. Spall at backside of North side post Sp 2.
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		1			
Bridge Rail			5	3	Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts.
(Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL)					
Bridge Rail Posts			3	3	Post of plastic rail detached & patch broken at SW and NW parapet
(Type :)					
Bridge Rail/Posts Coating			X	3	Plastic rails Blue powder coat
(Type :)					
Sidewalk			X	X	
Girders			6	6	Voided slab. Narrow cracks at fascias.
Diaphragms/Cross Frame			X	X	
Bearings			N	N	Recessed & too high to see at abut- visible only at exteriors.
Temperature (deg. C)		1			Integral at pier.
(Expansion Type :)					
(Fixed Type : POT BEARING)					
Coating Adequate (Y/N)					
Functioning (Y/N)					
Deck Underside			6	6	Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor.
Stains (Percent Area)		2			
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 2 Spans, Lengths(m): 32.6-37.8, A-Ident Number:)				
Superstructure General Rating		6	6	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	5	1m delam crack at NW not affecting bearing
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	5	Scaled at NW
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral at pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		7	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Curve to South
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		5	5	25mm cracks @ both-sealed Concrete slope protection
(Type : CONCRETE; CONCRETE)				
Bank Stability		6	6	
Drainage		7	7	
Grade Separation General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Repair parapet rail spall and SE approach parapet. Approx 10m2 Total. Repair or remove plastic posts and rail.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT 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	2013	Replace lens at NE dock light.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/61.1	Sufficiency Rating (Last/Now) (%)	49.7/45.2	Est. Repl. Yr	2046	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	16-Oct-2014		Previous Inspection Date	18-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							