

Bridge Inspection										
Bridge File Number	77808 W-2 Bridge					Form Type	PSR			
Year Built/Year Supstr	1974/1974					Lot No.	1			
Bridge or Town Name	CALGARY - 17 AVENUE SOUTH					Inspector Name	Garry Roberts			
Located Over	2:15 R1 31.536;2:15 L1 31.631;RAMP 4092-1 B;RAMP 4092-1 E					Inspector Class	BR CLS A			
Located On	1A:07 L1 12.315					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	16-Jan-2013			
Legal Land Location	NE SEC 12 TWP 24 RGE 1 W5M					Data Entry By	Kelsey Roberts			
Longitude, Latitude	-114:00:20, 51:02:14					Data Entry Date	02-Feb-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y					Review Date	22-Jan-2013			
Clear Roadway/Skew	17.7 / -30 deg. (LHF)					Dept. Reviewer Name	Tim Davies			
AADT/Year	26,770 / 2001 (E)					Dept. Review Date	04-Feb-2013			
Road Classification	RLU-208-100					Follow-Up By				
Detour Length (km)	16									
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 5.2m, 2 R1 5.2m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)	5.3	In Advance (Y/N)	No
Remarks												
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				No
Remarks			Not req.									
Hazard Marker At Bridge (Y/N)		No										
Remarks												
Other Sign Types		ROUTE, 60KM/HR										

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	at SE				Gas				
Power	In area				Municipal		Manhole @ NW&NE approach		
Others	Light standard				Problem (Y/N)		No		
Remarks			Underside deck lighting						

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve to West B2131
Vertical Alignment		6	6	On crest curve with grade up to West
Roadway Width (m)		17.000		WB structure 300mm lower than EB
Approach Bump		7	7	
Guardrail (Y/N)		Yes		Parapets
Guardrail		5	4	Minor spall at NW
Length (m)		35.000		
Current Standard (Y/N)		Yes		
Termination Type		TURNDOWN		
Drainage		7	7	

Approach Road				
		Last	Now	Explanation of Condition
Approach Road General Rating		6	6	
Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 41-42.1, A-Ident Number:)				
Special Features				
Special Feature			7	Strengthening plates-@ mid span of Sp.2 at bottom of girders.
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last	0	0	0	0
Now	0.0	0.0	0.0	0.0
Wearing Surface		7	7	
(Material Type : POLYMER MODIFIED ACP)				
(Thickness(mm) : 50)				
Lateral Connection Problem (Y/N)	No			
Deck Top		N	N	Paved over
Deck Rideability		5	7	
Deck Joints		3	3	Longitudinal joint along center median. Heavy spalling at West abut. Heavy scaling with surface spalls at East abut.
Temperature (deg. C)		10		
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))				
(Fixed Type :)				
Gap Size (mm)		Gap Location		
45		E abut		
25		W abut		
Deck Drainage		5	4	
Drains Clogged (Y/N)		No		
Curbs/Median		4	4	Parapets at north side, center median at south side. Isolated spalls at parapet at NW and NE.
(Curb Type : Standard)				
Scaling (Percent Area)		0		
Bridge Rail		7	7	plastic rail & posts Plastic rails Blue coating
(Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL)				
Bridge Rail Posts		7	7	
(Type :)				
Bridge Rail/Posts Coating		5	7	
(Type :)				
Sidewalk		3	3	Spalled at West abut. joint.
Girder Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last	0	0	0	2
Now	0	0	0	2
Wide crack surface spall and corrosion stain @ Sp.1-G6. 2 areas of Sp.2-G6 NE exterior with corrosion cracks and stains and starting to spall.				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PB, 2 Spans, Lengths(m): 41-42.1, A-Ident Number:)				
Girders		3	3	Scaling & staining @ sides of girders @ SW & SE. Girder drains are deteriorating girder underside at locations where drains not extended.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 12)				
Diaphragms/Cross Frame		7	7	
Bearings		5	5	Recessed at abuts-only partially seen Integral at pier.
Temperature (deg. C)	10			
(Expansion Type : POT BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		3	3	Cracked and spalled under longitudinal median joint.
Stains (Percent Area)	15			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		N	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Approx. 2m ² of delam at north end of east breastwall.
Wingwalls		5	5	
Piles		N	N	Buried
Paint/Coating		3	3	Coating is cracked and corrosion stained
Abutment Stability		7	7	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral @ pier
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Pigmented sealer
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	On curve
Traffic Safety Features		4	4	Isolated spalls
Type	PARAPETS			
Slope Protection		7	7	
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Parapet spalls approx 20m ²					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Install new deck joints including median joint. (Patch if not replaced)					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Blast patch & seal girders at NE & SW & SE & wingwalls.					
OTHER ACTION	2013	Patch underside deck under median joint.					
OTHER ACTION	2013	Extend all girder drains. Clean and seal all corrosion.					
OTHER ACTION	2013	Chip and investigate corrosion cracks at Sp.1-G1 and Sp.2-G1.					
OTHER ACTION	2013	Patch median spall 2m ²					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	41.2/43.6	Est. Repl. Yr	2033	Maint. Req'd. (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	17-May-2011
Inspection Cycle (Default) (months)	21		
Comment			