

Bridge Inspection													
Bridge File Number	82018 SE-1 Bridge					Form Type	PSR						
Year Built/Year Supstr	2007/2007					Lot No.	2						
Bridge or Town Name						Inspector Name	Garry Roberts						
Located Over	1:09 R1 4.197;1:09 L1 4.199					Inspector Class	BR CLS A						
Located On	201:08 L1 0.966					Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date	14-Aug-2011						
Legal Land Location	NW SEC 33 TWP 24 RGE 2 W5M					Data Entry By	Alyssa Boynton						
Longitude, Latitude	-114:13:56, 51:05:20					Data Entry Date	06-Sep-2011						
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey						
Contract Main. Area	DEERFOOT/STONE Y					Review Date	24-Aug-2011						
Clear Roadway/Skew	12.5 / -22 deg. (LHF)					Dept. Reviewer Name	Tim Davies						
AADT/Year	35,490 / 2010 (A)					Dept. Review Date	08-Sep-2011						
Road Classification	RFD-412.4-130					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:	CL800					----> Primary Span							
Posting Information													
Required Vert. Clearance Posting (m)	UNDER: 1 L1 6.5m, 1 R1 7.0m												
Posted Vertical Clearance (Y/N)	Yes												
Posted:	Lane	EB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	
Remarks													
Required Load Posting (t)	Single				Semi				Truck Train				
Posted Loading (t)	Single				Semi				Truck Train				
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No					
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Remarks	Not Req'd												
Hazard Marker At Bridge (Y/N)	No												
Remarks													
Other Sign Types													
Utilities (Located at)													
Utility Attachments													
Telephone						Gas							
Power	Conduit under bridge for Lighting					Municipal	Light Standard						
Others						Problem (Y/N)	No						
Remarks													
Approach Road													
					Last	Now	Explanation of Condition						
Horizontal Alignment				6	6	In curve							
Vertical Alignment				6	6	On crest & curve							
Roadway Width (m)	13.400					Current bridge is 12.9 with temporary barriers to transition traffic. Slight settlement both ends.							
Approach Bump				7	6								
Guardrail (Y/N)	Yes					Thrie beam transition installed at North West approach only. Conc barrier - typical @ NE & NW corners. No conc barrier @ SE, not req'd							
Guardrail				8	8								
Length (m)	27.000												
Current Standard (Y/N)	Yes												
Termination Type	Terminal												
Drainage				7	7								
Approach Road General Rating				6	6								

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : NU, 2 Spans, Lengths(m): 50-52, A-Ident Number:)					
Special Features					
Special Feature			X	Temporary conc barriers installed opn bridge to direct traffic until ultimate alignment is constructed in the future	
(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			8	8	
(Material Type : ACP)					
(Thickness(mm) : 80)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	Paved over.
Deck Rideability			8	8	
Deck Joints			7	4	1 plow deflector missing at right hand lane of A1 and 2 missing at A2.
Temperature (deg. C)		18			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
65		N Abut			
70		S Abut			
Deck Drainage			8	8	
Drains Clogged (Y/N)		No			
Curbs/Median			9	8	Concrete barriers Parapets.
(Curb Type :)					
Scaling (Percent Area)		0			
Bridge Rail			X	X	Pigmented sealer on conc. Light scaling of coating at West barrier.
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			8	6	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Girders			4	4	Typ. hairline NU Cracks in web trasnition and top flange. All cracks marked at abuts. and piles from 2008 level 2 inspection. 5 lines of continuous girders.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 10)					
Diaphragms/Cross Frame			9	8	Galv steel.

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 2 Spans, Lengths(m): 50-52, A-Ident Number:)				
Bearings		9	9	A1 & A2. Integral at pier.
Temperature (deg. C)	18			
(Expansion Type : POT BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
Stains (Percent Area)	0			
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		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	Vertical cracks at abut.1 with efflorescence.
Wingwalls		8	8	
Piles		N	N	Buried.
Paint/Coating		8	8	
Abutment Stability		9	9	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		8	8	Concrete base at pier shaft
Nose Plate		X	X	
Paint/Coating		7	7	Pigmented sealer
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	In curve with good sight distance, both directions

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features		8	8	
Type	Concrete Barriers			
Slope Protection		7	8	
(Type : CONCRETE; CONCRETE)				
Bank Stability		8	8	
Drainage		8	8	
Grade Separation General Rating		6	6	

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	2011	Install missing plow gaurds.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	57.9/52.5	Est. Repl. Yr	2082	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Revise girder rating after NU girder rating guide is available. G Roberts.		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	14-May-2013		Previous Inspection Date	18-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							