

Bridge Inspection										
Bridge File Number	76158 -1 Bridge					Form Type	SG			
Year Built/Year Supstr	1966/1966					Lot No.	2			
Bridge or Town Name	OLDS					Inspector Name	Owen Salava			
Located Over	2:20 R1 35.569;2:22 L1 0.000					Inspector Class	BR CLS A			
Located On	27:08 R1 0.002;27:08 L1 0.001					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	12-Mar-2013			
Legal Land Location	NW SEC 36 TWP 32 RGE 1 W5M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:01:31, 51:47:40					Data Entry Date	26-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA29					Review Date	16-Mar-2013			
Clear Roadway/Skew	16.5 / -10 deg. (LHF)					Dept. Reviewer Name	Chris Black			
AADT/Year	2,550 / 2011 (A)					Dept. Review Date	28-Mar-2013			
Road Classification	RAU-209-110					Follow-Up By				
Detour Length (km)	10									
Allowable Load (t):	Single		Semi		Train	----> On Critical Spans ---->Critical Member				
Design Loading:	HS20					----> Primary Span				

Posting Information													
Required Vert. Clearance Posting (m)		UNDER: 2 R1 5.2m, 2 L1 5.3m											
Posted Vertical Clearance (Y/N)		Yes											
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	
Remarks													
Required Load Posting (t)		Single				Semi				Truck Train			
Posted Loading (t)		Single				Semi				Truck Train			
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No					
Posted:	Lane	WB	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		Route, Exit speed.											

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	In west ditch.		Gas
Power	On west abutment.		Municipal
Others	Light poles.		Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Typical interchange. Horizontal curves to E & W.
Vertical Alignment		5	5	
Roadway Width (m)	16.500			Creased at SE but functioning. Tears to rail at SW.
Approach Bump		5	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	Not attached to bridge; insufficient posts; NE too low; not thriebeam.
Length (m)	91.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	N	(Hole in edge between approach curb/slab interface, typical all corners - photo. 11Aug2011) - Snow covered.
Approach Road General Rating		5	5	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FR, 3 Spans, Lengths(m): 28.3-4.3-28.3, A-Ident Number: A0521-01)						
Special Features						
Special Feature		N	N	(Apparently not turned on. 94/06/22) 95/05/01).		
(SType : CATH PROTECTION)						
Special Feature			7	Median HSS Guardrail		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	10.0	0.0	0.0	0.0		
Wearing Surface		5	5	Some worn chipseal areas, ~10%.		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Deck Top		N	N			
Deck Rideability		7	7			
Deck Joints		4	4	E abut trough corroded & torn apart - photo. Misaligned laterally @ E - photo; misaligned vertically @ W. W abut trough corroded through (photo). E abut deflection plate missing; trough filled with debris.		
Temperature (deg. C)		-5				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
30		East				
30		West				
Deck Drainage		4	4	Icing on both bearing seats at abuts. Retro drain installed @ N. E abut concrete slope protection slopes towards abut due to settlement from erosion. (Voids under W concrete slope - photo. 11Aug2011) - Not visible.		
Drains Clogged (Y/N)		No				
Curbs/Median		6	6	Vertical cracks at posts. Previously sealed. Curb top cracked near NE cover plate.		
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail		7	7	Minor bend in some slats.		
(Type : STEEL VERTICAL BAR)						
Bridge Rail Posts		7	7			
(Type : POST STEEL;POST STEEL)						
Bridge Rail/Posts Coating		3	6			
(Type : PAINT)						
Sidewalk		X	X			
Girder/Beam						
Cover Plate		7	7			
Flange		8	8			
Web		8	8			
Stiffeners		8	8			
Splice		8	8			
Weld		8	8			
Diaphragms/Cross Frame		8	8			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FR, 3 Spans, Lengths(m): 28.3-4.3-28.3, A-Ident Number: A0521-01)				
Paint Condition		4	4	Paint blistering, peeling locally at various locations. Yellow with red primer.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		4	N	(Grout pad spall @ W & E., W abut. Surface corrosion on bearings. 11Aug2011). Mostly covered in ice/gravel; tops of rockers visible.
Temperature (deg. C)	-5			
(Expansion Type : ROCKER BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Some light scaling & stains @ weep drains. Transverse crack causing delam/scaling @ S1 between G1,2 - photo. Small spall @ SW. Medium width cracks with corrosion stains @ exteriors.
Stains (Percent Area)	5			
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	E seat covered by debris & ice.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : STEEL)				
(Total Number of Bearing Piles : 9:9)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		4	5	2% superficial corrosion; localized peeling. Yellow with red primer.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		4	6	Piers have H-iron & concrete column protection with thrie beam rail.
Type	Guardrail			
Slope Protection		3	3	(W slope protection cracked & settled; top bench is sloped toward abut - photo. 11Aug2011) - Under ice & debris. E bench heaving & cracked at SE.
(Type : CONCRETE; CONCRETE)				
Bank Stability		3	N	(Void under concrete slope protection. Panels settled, cracked - photo. 11Aug2011) - Not visible due to snow.
Drainage		3	N	(Eroding under West slope protection. 11Aug2011) - Not visible due to now.
Grade Separation General Rating		3	3	GR carried forward from previous stability rating.

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	2013	Patch spall at SW haunch.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace corroded joint plumbing & deflector plate.					
RESET/ PAINT BEARINGS	2013	Reset both abutments & patch spalled grout pads, if not yet done.					
REPAINT SUPERSTRUCTURE	2013						
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	2013	And recast cracked/settled slope protection to drain away from abutment, fill voids.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Upgrade approach guardrail to meet standard.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	53.6/53.7	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2007.04.07 Second generation rehab required about 2015. Rail upgrade also. Suspect interchange may be modified and median widened at about same time. structurally bridge ok until 2050.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	12-Dec-2014		Previous Inspection Date	11-Aug-2011			
Inspection Cycle (Default) (months)	21						
Comment							