

Bridge Inspection											
Bridge File Number	76660 -1 Bridge					Form Type	PSR				
Year Built/Year Supstr	1970/1970					Lot No.	2				
Bridge or Town Name	EXSHAW					Inspector Name	Garry Roberts				
Located Over	1:04 R1 3.205;1:04 L1 3.228					Inspector Class	BR CLS A				
Located On	40:12 C1 49.923					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	09-Feb-2012				
Legal Land Location	NW SEC 2 TWP 25 RGE 8 W5M					Data Entry By	Erin Roberts				
Longitude, Latitude	-115:01:14, 51:06:14					Data Entry Date	14-Mar-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Tom Carey				
Contract Main. Area	CMA28					Review Date	22-Feb-2012				
Clear Roadway/Skew	8.5 / 9 deg. (RHF)					Dept. Reviewer Name	Tim Davies				
AADT/Year	2,430 / 2010 (A)					Dept. Review Date	22-Mar-2012				
Road Classification	RAU-209-110					Follow-Up By					
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 35			Semi	CS2 61		Train	CS3 76 GIRDER		----> On Critical Spans ---->Critical Member
Design Loading:	HS20					----> Primary Span					

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 1 L1 5.3m, 1 R1 5.7m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	EB	On Bridge (m)	5.7	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.3	In Advance (Y/N)	Yes
Remarks		Confirmed posting is accurate Sept 17th, 2010										
Required Load Posting (t)			Single		Semi			Truck Train				
Posted Loading (t)			Single		Semi			Truck Train				
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No				
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												
Other Sign Types												

Utilities (Located at)												
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE											
Telephone	All through area					Gas						
Power	Crosses road North of bridge					Municipal						
Others	3 Main line 300 m North.					Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Typical grade separation. Crest and entrances.
Vertical Alignment		6	6	
Roadway Width (m)	8.500			Missing isolated splice bolts Not thriebeam
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		4	4	
Length (m)	19.000			
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN ENDS			
Drainage		6	7	
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 33.5-33.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	Chip coat on ACP 5% worn
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Approx 25 broken welds at North joint.
Temperature (deg. C)		-1			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC);FINGER PLATES</b> )					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
60		S. abut.			
65		Pier			
60		N. abut.			
Deck Drainage			7	7	Weep tubes have been extended
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	CORROSION STAINS @ EXT @ POSTS. Coating 50% peeled abrasion @ North Cracking @ posts @ exteriors
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			7	7	Several post A/B nuts are just flush
(Type : <b>BRIDGE TUBE</b> )					
Bridge Rail Posts		6	6		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	6		
(Type : )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			4	4	Hairline crack on bottom of legs with no staining. Cracking in girders at ends through chamfer and extending into deck @ medium width.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : <b>12</b> )					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 33.5-33.5, A-Ident Number: )				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	Bearing are connected at pier.
Temperature (deg. C)	-1			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Rebar grid corrosion @ girders #5 + 6 @ North span
Stains (Percent Area)	0			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	Wide crack at A1 under G3-G4
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		7	7	
Piles		N	N	Buried
Paint/Coating		4	4	Pigmented sealer is peeling
Abutment Stability		8	8	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : PIER-COLUMN)				
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		5	5	Pigmented sealer
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	
Traffic Safety Features		4	5	@ Median only
Type	GUARDRAIL			Wrong lap at SE- but well off roadway.
Slope Protection		5	5	20% corrosion stained and surface spalled
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		7	7	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>5</b>	

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	2012	Reweld broken fingers north abutment					
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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.3/58.5</b>	Est. Repl. Yr	2028	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	09-Nov-2013		Previous Inspection Date	17-Sep-2010			
Inspection Cycle (Default) (months)	21						
Comment							